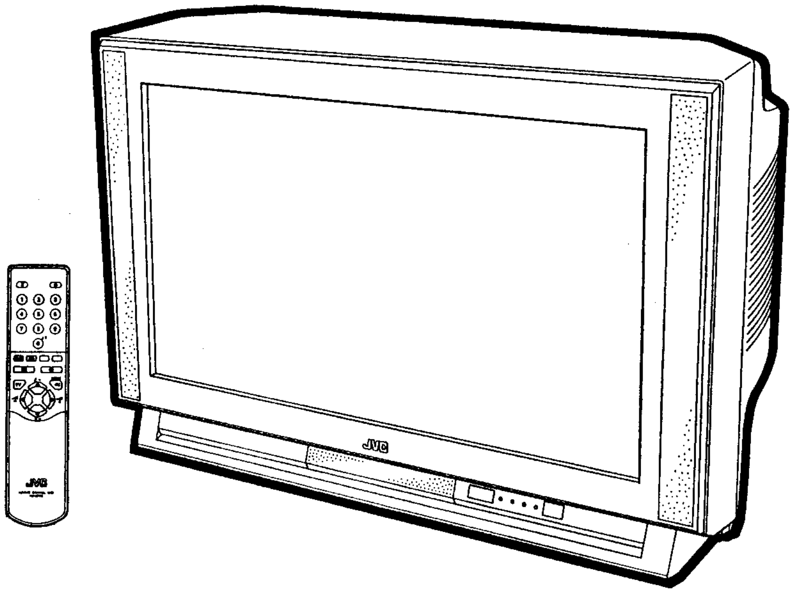
JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS
MD

AV-32WFP1EU
AV-32WFP1EK



CONTENTS

■ SPECIFICATIONS ········ 2
★ OPERATING INSTRACTIONS (APPENDIX) ········ 1-1
■ SAFETY PRECAUTIONS ········ 4
■ FEATURES ········ 6
■ MAIN DIFFERENCE PARTS LIST ········ 7
■ SPECIFIC SERVICE INSTRUCTIONS ········ 8
■ SERVICE ADJUSTMENTS ········ 14
★ STANDARD CIRCUIT DIAGRAM (APPENDIX) ········ 2-1
■ PARTS LIST ········ 39

COPYRIGHT © 1999 VICTOR COMPANY OF JAPAN, LTD.

No.51550
Jun. 1999

SPECIFICATIONS

Item	Content	
	AV-32WFP1EU	**AV-32WFP1EK**
Dimensions (W × H × D)	85.5cm × 55.0cm × 56.8cm	
Mass	59.5kg	
TV RF System	CCIR (B/G, D/K, I , L)	CCIR (I)
Colour System	PAL / SECAM / NTSC (Only EXT mode)	PAL / NTSC (Only EXT mode)
Stereo System	A2 / (B/G, D/K) / NICAM (B/G, D/K, L)	NICAM (I)
Teletext System	Fastext(United Kingdom system) / TOP (German system) / WST(Standard system)	Fastext(United Kingdom system) / WST(Standard system)
Receiving Frequency		
VHF	47MHz~ 470MHz	———
UHF	470MHz~862MHz	470MHz~862MHz
French CATV	116MHz~172MHz / 220MHz~469MHz	
Intermediate Frequency		
VIF Carrier	38.9MHz(B/G, D/K, I, L) / 34.10MHz(L')	39.5MHz(I)
SIF Carrier	33.4MHz(5.5MHz : B/G) / 32.9MHz(6.0MHz : I) / 32.4MHz(6.5MHz : L, D/K) / 40.6MHz(6.5MHz : L')	33.5MHz(6.0MHz : I)
Colour Sub Carrier Freq.		
PAL	4.43MHz	4.43MHz
SECAM	4.40625MHz / 4.25MHz	———
NTSC	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz
Power Input	AC 220V~240V , 50Hz	
Power Consumption	290W(Max), 164W(Avg) / 164W/h (ITALY)	
Picture Tube	Visible size : 76cm, Measured diagonally	
High Voltage	32.0kV $^{+1kV}_{-1.5kV}$ (at zero beam current)	
Speaker	φ10 cm round × 2, φ3.5 cm round × 2(L / R) , 10 cm × 3 cm oval × 1(CENTER)	
Audio Output	20W+20W+5W	
EXT-1/EXT-2/EXT-3 (Input / Output)	21-pin Euro connector (SCART socket)	
EXT4 (Input) Video	1Vp-p 75Ω(RCA pin jack)	
Audio(L/R)	500mVrms(-4dBs), High Impedance(RCA pin jack)	
S-VIDEO	Y : 1Vp-p Positive (negative sync provided, when terminated with 75Ω) C : 0.286Vp-p (burst signal, when terminated with 75Ω)	
SURROUND REAR Output	Speaker terminals for external surround speakers (Impedance 8Ω) only. Rated power output : 7.5W+7.5W	
AUDIO OUT	(Variable out (0-1 Vrms), low impedance) FRONT L/R output(RCA pin jack)	
Aerial Input	75Ω unbalanced, Coaxial	
Headphone jack	Stereo mini jack (φ3.5mm)	
Remote Control Unit	RM-C787 (AAA/R03 dry battery × 2)	RM-C786(AAA/R03 dry battery × 2)

Design & specifications are subject to change without notice.

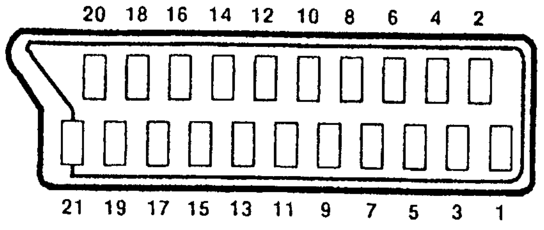
★ Manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

■21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	○	○	○
3	AUDIO L output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
4	AUDIO GND		○	○	○
5	GND (B)		○	○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○	○
7	B input	700mV$_{B\text{-}W}$, 75Ω	○	NC	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	○	○
9	GND (G)		○	○	○
10	SCL3		NC	○	NC
11	G input	700mV$_{B\text{-}W}$, 75Ω	○	NC	NC
12	SDA3		NC	○	NC
13	GND (R)		○	○	○
14	GND (Y$_S$)		○	NC	NC
15	R / C input	R : 700mV$_{B\text{-}W}$, 75Ω C : 300mV$_{P\text{-}P}$, 75Ω	○ (only R)	○ (only C)	○ (only C)
16	Ys input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	○	NC	NC
17	GND(VIDEO output)		○	○	○
18	GND(VIDEO input)		○	○	○
19	VIDEO output	1V$_{S\text{-}W}$(Negative going sync), 75Ω	○ (TV)	○ (LINE OUT)	NC
20	VIDEO / Y input	1V$_{S\text{-}W}$(Negative going sync), 75Ω	○	○	○
21	COMMON GND		○	○	○

[Pin assignment]



SAFETY PRECAUTIONS AV-32WFP1EU

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

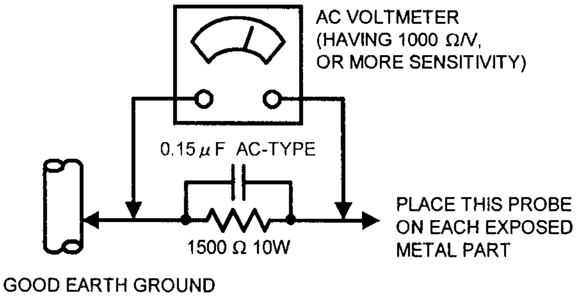
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● **Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



SAFETY PRECAUTIONS AV-32WFP1EK

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not ·have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.

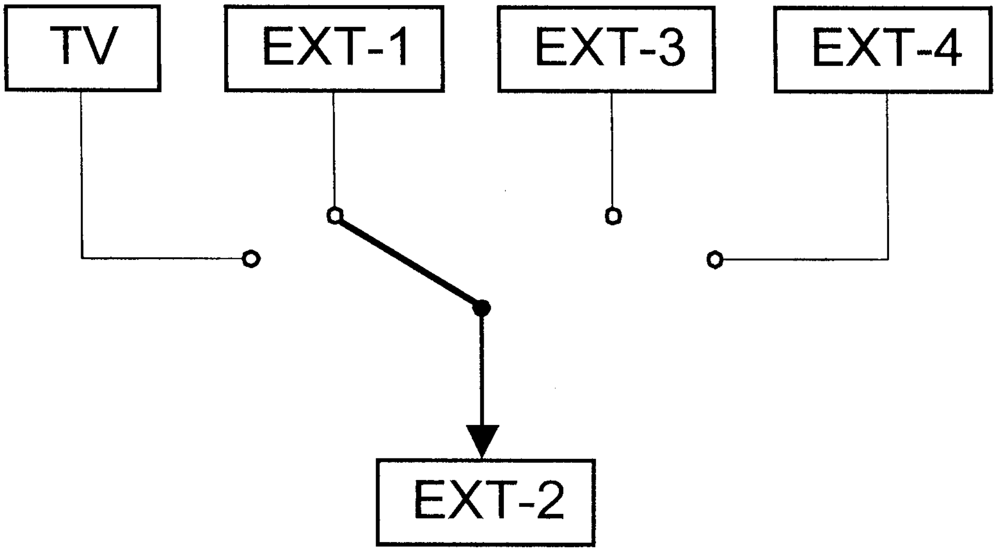
4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

WARNING

1. The equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUBTITLE, FULL modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 mode automatically.
- The TELETEXT SYSTEM has a built-in Fastest, TOP (Only AV-32WFP1EU) and WST system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.
- Because of built in 2 tuner PIP circuit, displays plural programs on the screen at the same time.
- Built-in REAR SPEAKER OUT.
- Built-in TV-LINK.



MAIN DIFFERENCE PARTS LIST

⚠	Model Name Part Name	AV-32WFP1EU	AV-32WFP1EK
	MAIN PWB	SMD-1001A-U2	SMD-1901A-U2
	P&P PWB	SMD0P001A-U2	SMD0P901A-U2
	IF PWB	SMD0F001A-U2	SMD0F902A-U2
⚠	**POWER CORD**	AEEMP001-185	AEEMP003-185A
⚠	**RATING LABEL**	LC20380-001A-U LC20379-001A-U	LC20091-002A-U
	REMOCON UNIT	RM-C787-1E	RM-C786-1E
	EURO LABEL	AEM1039-057-E	AEM1039-056-E
⚠	**INST BOOK**	LCT0337-001A-U LCT0338-001A-U LCT0339-001A-U	LCT0340-001A-U
	X-RAY CARD	AEM1041-001-E	×
	S.DIAGRAM (ONLY ITALY)	32WFP1EU-HSAE	×

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the 13 screws marked Ⓐ as shown in Fig. 1.
3. Withdraw the rear cover toward you.

REMOVING THE CHASSIS

- After removing the rear cover.

1. Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the chassis from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE AV TERMINAL PWB & THE AV BOARD

- After removing the rear cover.

1. Remove the 9 screws marked Ⓑ as shown in Fig. 1.
2. Remove the claws marked Ⓒ under the CHASSIS as shown in Fig2.
3. While raising the claw marked Ⓓ, remove the top of the AV BOARD slightly in the direction of arrow Ⓔ as shown in Fig. 2.

REMOVING THE SPEAKER (Tweeter & Center SP)

- After removing the rear cover.

1. Remove the 2 screws marked Ⓕ as shown in Fig. 1.

REMOVING THE DOME SPEAKER BOX

- After removing the rear cover.

1. Remove the 2 screws marked Ⓖ as shown in Fig. 1.
2. Follow the same steps when removing the other hand DOME SPEAKER BOX.

NOTE : When removing the screws marked Ⓖ of the DOME SPEAKER BOX, remove the lower side screw first, and then remove the upper screw.

REMOVING THE SPEAKER HORN

- After removing the DOME SPEAKER BOX.

1. Remove the 2 screws marked Ⓙ as shown in Fig.1.

REMOVING THE CONTROL BASE

- After removing the CHASSIS.

1. While pushing down the claws marked Ⓗ, remove the CONTROL BASE in the arrow direction Ⓘ as shown in Fig. 3.

CHECKING THE PW BOARD

To check the back side of the PW Board.

1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.

Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

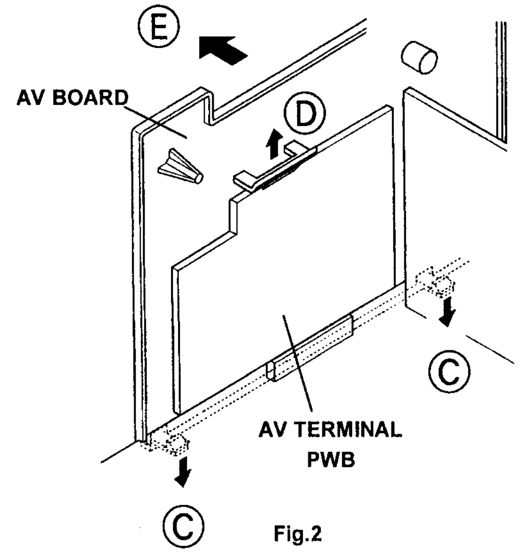


Fig.2

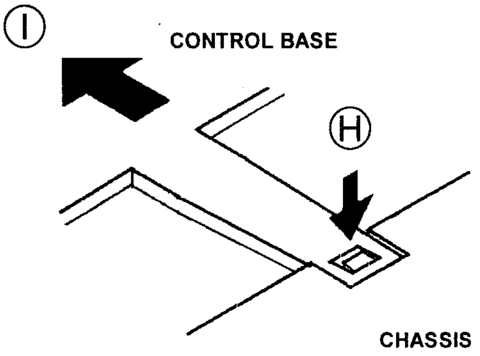


Fig.3

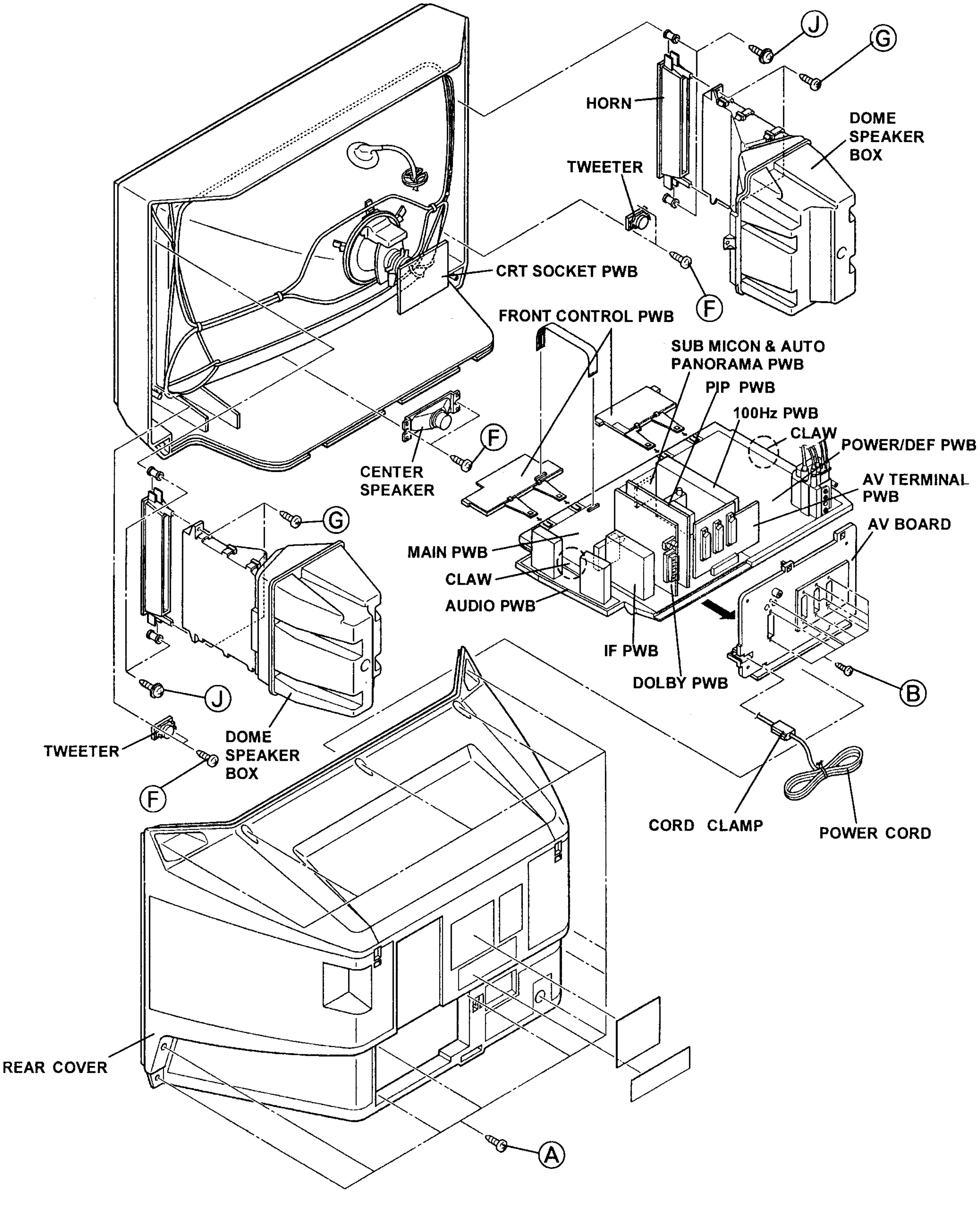

J
G
HORN
DOME
SPEAKER
BOX
TWEETER
CRT SOCKET PWB
F
FRONT CONTROL PWB
SUB MICON & AUTO
PANORAMA PWB
PIP PWB
100Hz PWB
CLAW
POWER/DEF PWB
AV TERMINAL
PWB
AV BOARD
F
CENTER
SPEAKER
G
MAIN PWB
CLAW
AUDIO PWB
IF PWB
DOLBY PWB
B
J
TWEETER
DOME
SPEAKER
BOX
F
CORD CLAMP
POWER CORD
REAR COVER
A

Fig.1

REMOVING THE CRT

- * Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc..,

1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.

- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.

- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- * The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

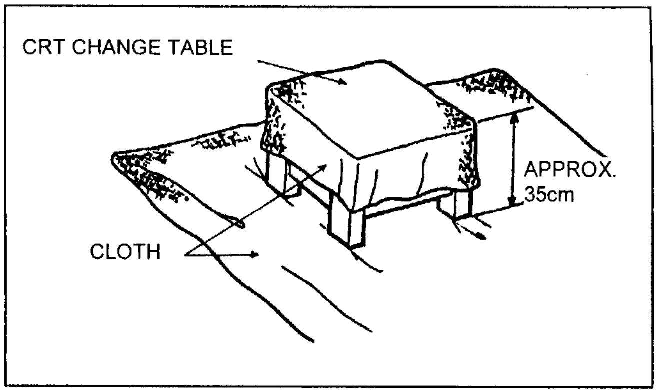

CRT CHANGE TABLE
APPROX. 35cm
CLOTH

Fig. 4

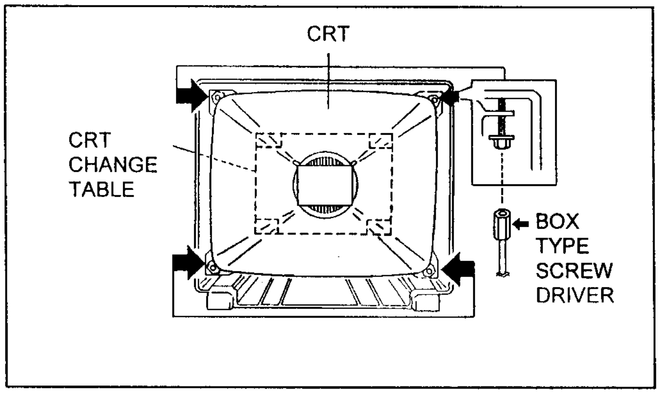

CRT
CRT CHANGE TABLE
BOX TYPE SCREW DRIVER

Fig. 5

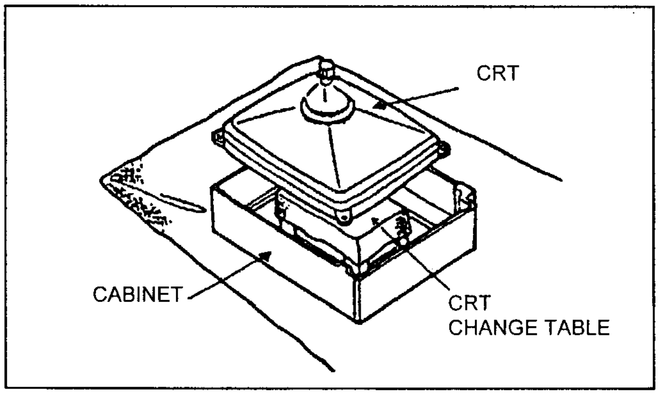

CRT
CABINET
CRT CHANGE TABLE

Fig. 6

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.7.
  Wipe around the anode button with clean and dry cloth. (Fig.7)
  Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.8)

★ **Silicon grease product No. KS - 650N**

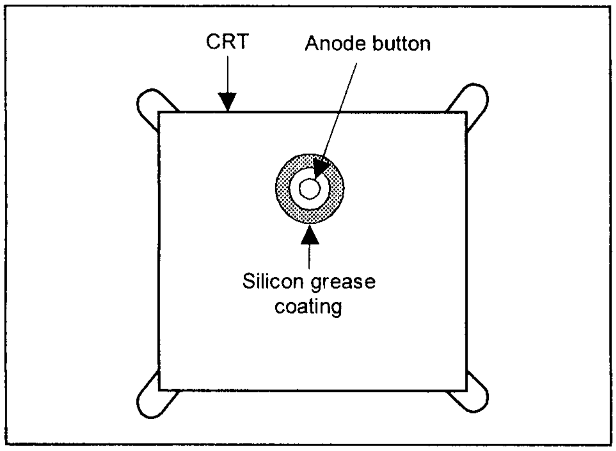

CRT
Anode button
Silicon grease coating

Fig. 7

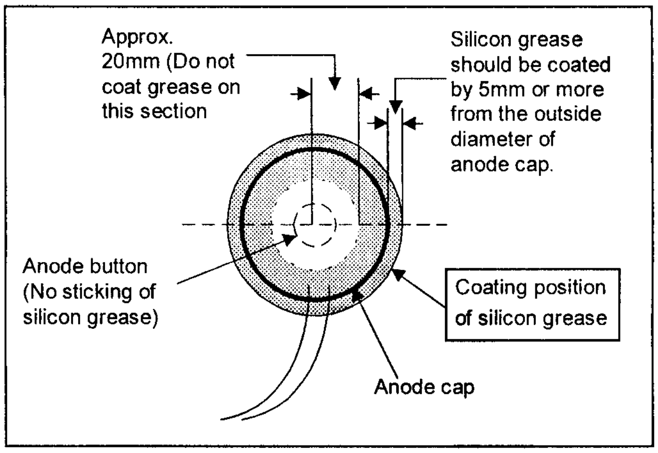

Approx. 20mm (Do not coat grease on this section
Silicon grease should be coated by 5mm or more from the outside diameter of anode cap.
Anode button (No sticking of silicon grease)
Coating position of silicon grease
Anode cap

Fig. 8

REPLACEMENT OF MEMORY ICs

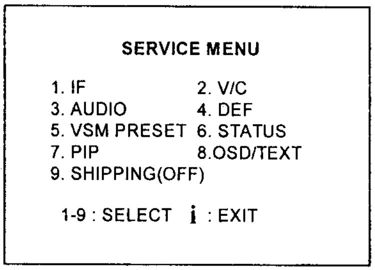
1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

2. Procedure for replacing memory ICs

PROCEDURE
(1) **Power off** Switch the power off and unplug the power cord from the outlet.
(2) **Replace ICs.** Be sure to use memory ICs written with the initial data values.
(3) **Power on** Plug the power cord into the outlet and switch the power on.
(4) **Check and set SYSTEM CONSTANT SET:** 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously. 2) The SERVICE MENU screen of Fig. 1 will be displayed. 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key. 5) Press the MENU key to memorize the setting value. 6) Press the INFORMATION key twice, and return to the normal screen.
(5) **Setting of receive channels** Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS.
(6) **User settings** Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.
(7) **Setting of SERVICE MENU** Verify the setting items of the **SERVICE MENU** of Table 3, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS.

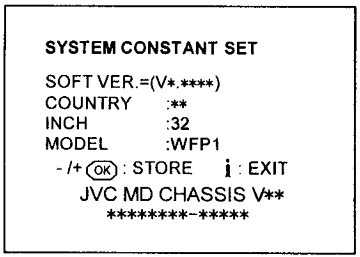


SERVICE MENU

1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8.OSD/TEXT
9. SHIPPING(OFF)

1-9 : SELECT i : EXIT

Fig.1



SYSTEM CONSTANT SET

SOFT VER.=(V*.****)
COUNTRY :**
INCH :32
MODEL :WFP1
-/+(OK) : STORE i : EXIT
JVC MD CHASSIS V**
********-*****

Fig.2

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	ⓘ
MUTING	🔇
MENU	OK
FUNCTION UP/DOWN	▲ ▼
FUNCTION -/+	◀ ▶

SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value	
		AV-32WFP1EU	AV-32WFP1EK
COUNTRY	→ EK → EN → EP → ER → EU	EU	EK
INCH	→ 28 → 32 → 29	32	←
MODEL	→ WFP1 → WZ	WFP1	←

USER SETTING VALUES (TABLE 2)

Setting item	Setting value	Setting item	Setting value
SUB POWER	ON	VOLUME	Appropriate sound volume
CHANNEL	1 POSITION	DISPLAY	CHANNEL NUMBER DISPLAY
CHANNEL PRESET	See;OPERATING INSTRUCTUONS.	ZOOM	REGULAR
P.BASS	POWER BASS OFF		
MENU SCREEN SETTING			
PICTURE SETTING		DIGITAL SURROUND	OFF
TINT	COOL	PRO LOGIC 3D-PHONIC	
CONTRAST BRIGHT SHARP COLOUR	REFER to VSM SETTING	MODE LEVEL TV SPEAKER VOLUME (L/R/C)	CINEMA/SPORT CENTER L/R/C MAX
ECO MODE	OFF		
PICTURE FEATURES		DOLBY PRO LOGIC	
DIGITAL VNR	OFF	MODE TV SPEAKER TEST MODE VOLUME	NORMAL L/R/C OFF MAX(ALL)
DigiPure	ON		
COLOUR SYSTEM (MAIN/SUB)	TV : According to preset CH EXT : AUTO	EXT SETTING	
4:3 ASPECT	PANORAMIC	ID DUBBING	BLANK EXT1→EXT2
PICTURE TILT	CENTER	FEATURES	
PIP	PIP POSITION : RIGHT LOWER MULTI PIC : 5SCREEN (EK MODEL) 10SCREEN (EP MODEL)	SLEEP TIMER BLUE BLACK CHILD LOCK	OFF ON ID : No.0000 ALL CH OFF
SOUND SETTING		INSTALL	
STEREO I / II	∞ (STEREO SOUND)	LANGUAGE	ENGLISH
BASS TREBLE BALANCE	CENTER		
SPEAKER	ON		
HEADPHONE	VOLUME :10 TV SPEAKER :OFF OUTPUT :MAIN		

SERVICE MENU SETTING ITEMS (TABLE 3)

Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT 3. L.V.LEVEL
2. V / C	1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. CUT R 6. CUT G 7. CUT B 8. BRIGHT 9. CONT. 10. COLOUR 11. HUE 12. CONT LIMIT 13. PURITY
3. AUDIO *(Do not adjust)*	1. CONC LIMIT 2. A2 ID THR
4. DEF.	1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE 5. EW-PIN 6. TRAPE 7. COR-UP 8. COR-LO 9. ANGLE 10. BOW 11. V-S.CR 12. V-LIN
5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. WDR R 7. WDR G 8. WDR B 9. BASS 10. TREBLE
6. STATUS *(Do not adjust)*	VPS PDC AUTO SUB SUB VER MTEXT
7. PIP	1. MAIN BRIGHT 2. MAIN R-Y 3. MAIN B-Y 4. SUB BRIGHT 5. SUB R-Y 6. SUB B-Y
8. OSD/TEXT	1. TEXT MONO H 2. TEXT MIX H
9. SHIPPING *(Do not adjust)*	ON / OFF

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. **There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
2. **The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
7. Preparation for adjustment (presetting):
   Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

PICTURE MODE (VSM)	COOL
SLEEP TIMER	OFF
SURROUND	OFF
BALANCE	CENTER
ECO	OFF
ZOOM	FULL

MEASURING INSTRUMENT AND FIXTURES

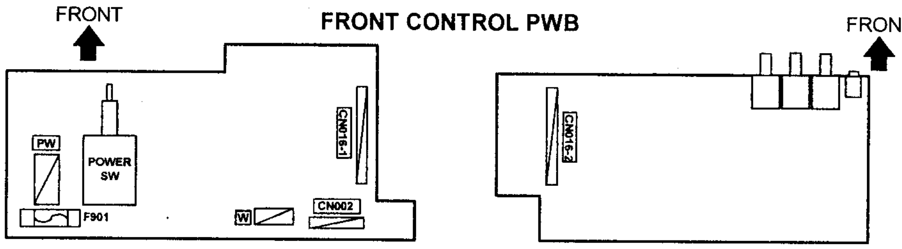
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / SECAM (Only AV-32WFP1EU) / NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

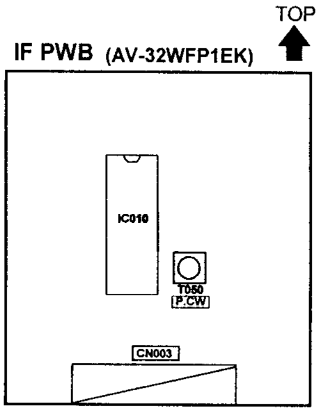
- Check of B1 Power supply.
- Check of High Voltage.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- TEXT circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

ADJUSTMENT LOCATION

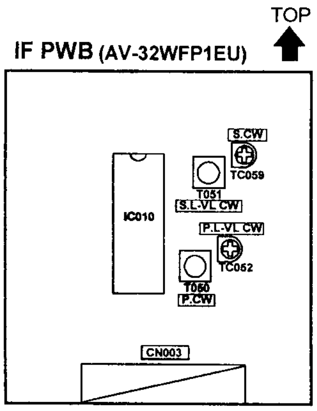
FRONT CONTROL PWB


FRONT
PW
POWER SW
F901
CN016-1
W
CN002
FRONT
CN016-2

IF PWB (AV-32WFP1EK)

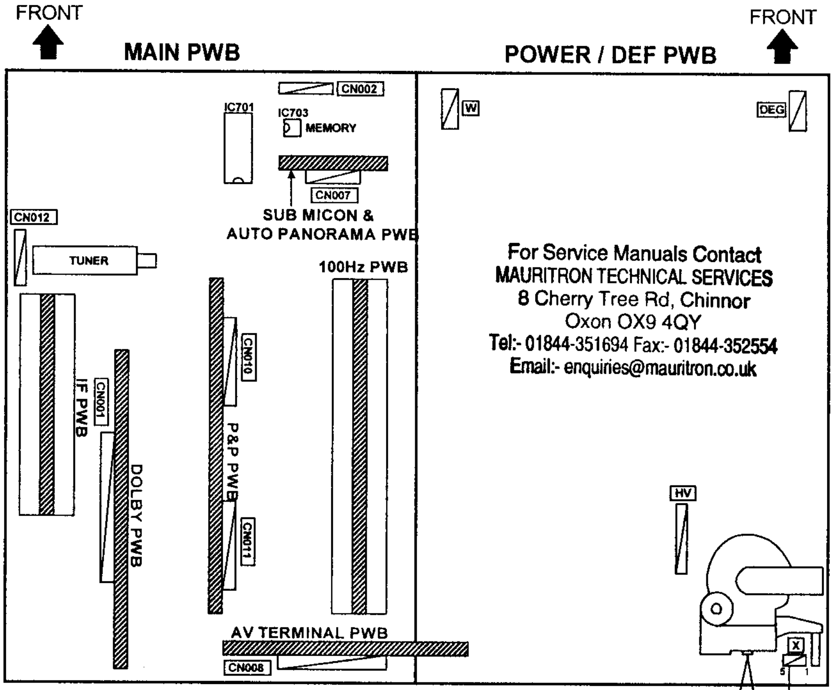

TOP
IC010
T050
P.CW
CN003

IF PWB (AV-32WFP1EU)

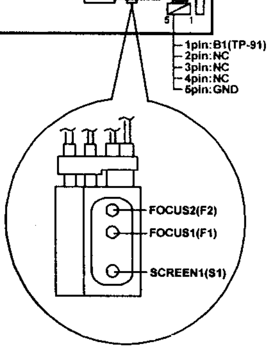

TOP
S.CW
TC059
T051
S.L-VL CW
IC010
P.L-VL CW
TC052
T050
P.CW
CN003

MAIN PWB

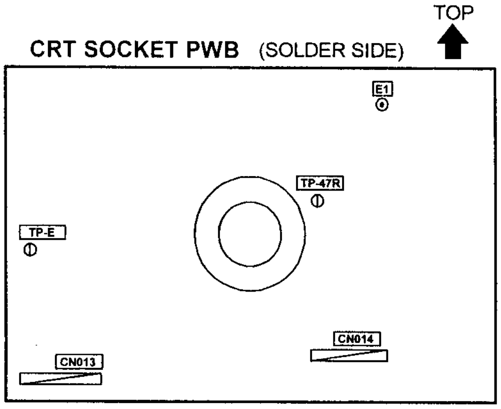
POWER / DEF PWB


FRONT
CN002
IC701
IC703
MEMORY
CN007
SUB MICON &
AUTO PANORAMA PWB
CN012
TUNER
100Hz PWB
CN010
CN001
IF PWB
DOLBY PWB
P&P PWB
CN011
AV TERMINAL PWB
CN008
FRONT
W
DEG
HV
X

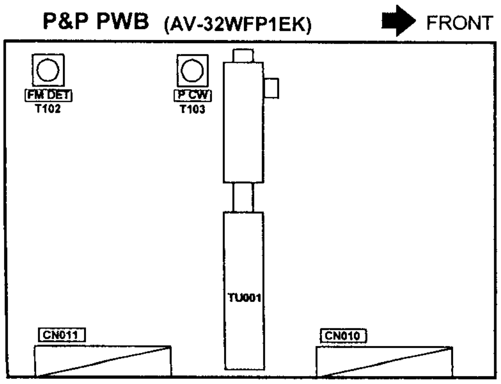
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk


5
1
1pin:B1(TP-91)
2pin:NC
3pin:NC
4pin:NC
5pin:GND
FOCUS2(F2)
FOCUS1(F1)
SCREEN1(S1)

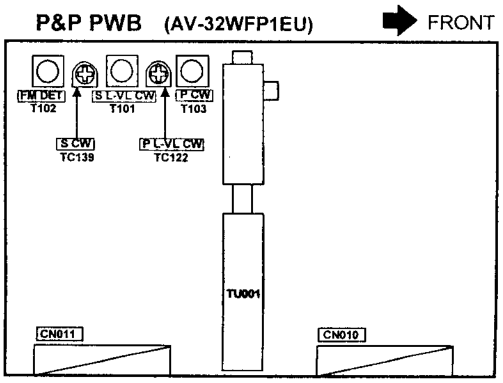
CRT SOCKET PWB (SOLDER SIDE)


TOP
E1
TP-47R
TP-E
CN014
CN013

P&P PWB (AV-32WFP1EK)


FRONT
FM DET
T102
P CW
T103
TU001
CN011
CN010

P&P PWB (AV-32WFP1EU)


FRONT
FM DET
T102
S L-VL CW
T101
P CW
T103
S CW
TC139
P L-VL CW
TC122
TU001
CN011
CN010

BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

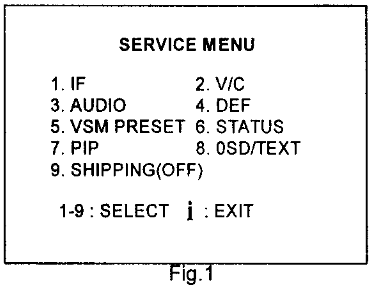
(1) **1. IF**	This mode adjusts the setting values of the IF circuit.
(2) **2.V/C**	This mode adjusts the setting values of the VIDEO / CHROMA circuit.
(3) **3.AUDIO**	This mode adjusts the setting values of the multiplicity SOUND circuit.
(4) **4.DEF**	This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below. • FULL (100/120Hz) • PANORAMIC (100/120Hz) • 16:9 ZOOM SUBTITLE (100/120Hz)
(5) **5.VSM PRESET**	This mode adjusts the initial setting values of COOL,NORMAL and WARM. (VSM : Video Status Memory)
(6) **6.STATUS**	This mode shows the monitor of the VPS. ***(Do not adjust)*** (VPS : Video Program System)
(7) **7.PIP**	This mode adjust the setting values of PIP circuit. (PIP : Picture In Picture)
(8) **8.OSD/TEXT**	This mode adjust the setting values of TEXT mode.
(9) **9.SHIPPING**	This mode sets the INITIAL SETTING VALUE. ***(Do not adjust)***

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

SERVICE MENU



SERVICE MENU

1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8. OSD/TEXT
9. SHIPPING(OFF)

1-9 : SELECT i : EXIT

Fig.1

(2) Selection of SUB MENU SCREEN

Press one of keys 1~9 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF
2. V / C
3. AUDIO
4. DEF.
5. VSM PRESET
6. STATUS
7. PIP
8. OSD / TEXT
9. SHIPPING

NEME OF REMOTE CONTOROL KEY

Names of key	key
INFORMATION	ⓘ
MUTING	🔇
MENU	OK
FUNCTION UP/DOWN	▲ ▼
FUNCTION -/+	◀ ▶

Fig.2

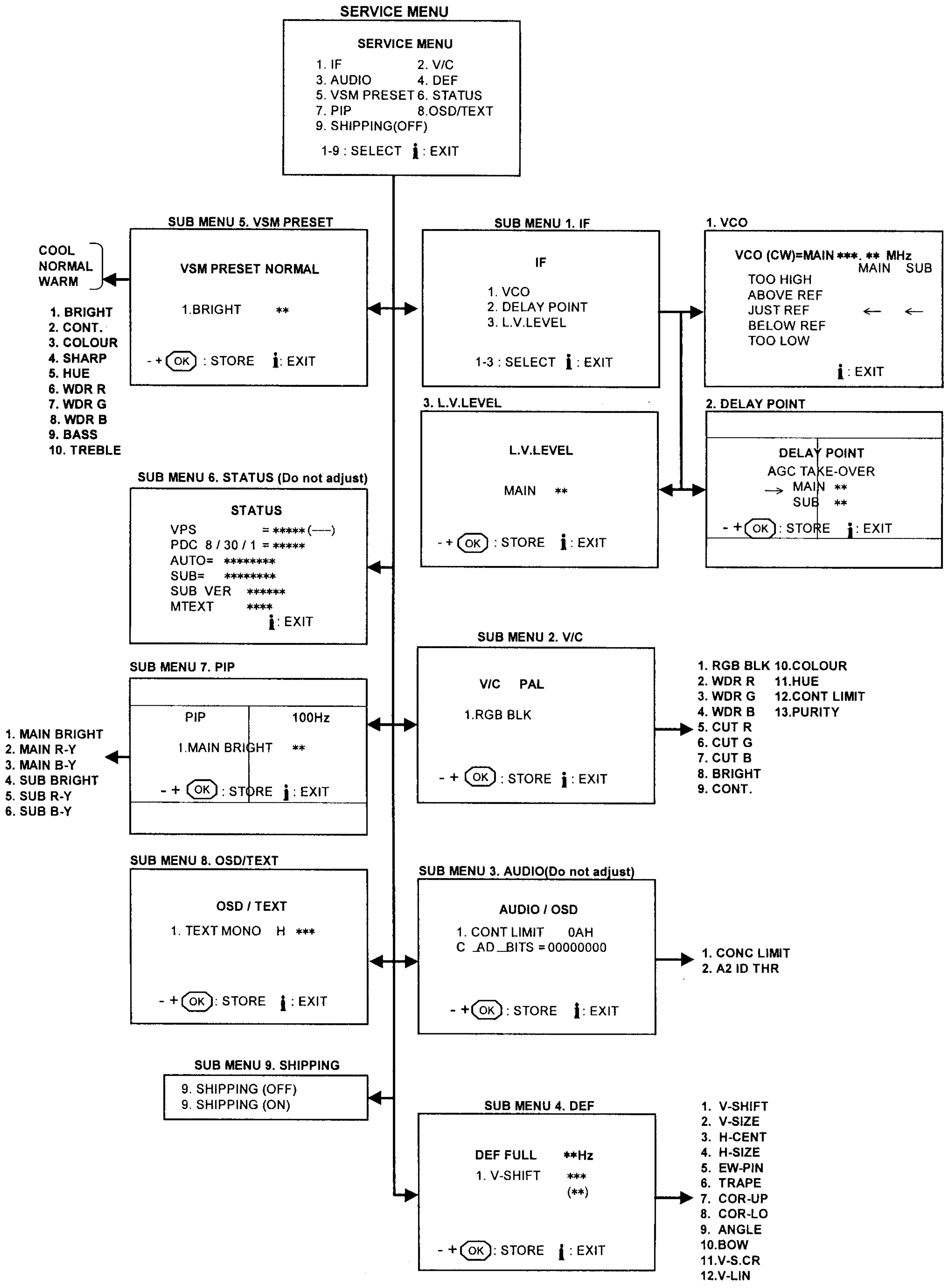

SERVICE MENU
SERVICE MENU
1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8.OSD/TEXT
9. SHIPPING(OFF)
1-9 : SELECT i : EXIT
SUB MENU 5. VSM PRESET
VSM PRESET NORMAL
1.BRIGHT **
- + OK : STORE i : EXIT
COOL
NORMAL
WARM
1. BRIGHT
2. CONT.
3. COLOUR
4. SHARP
5. HUE
6. WDR R
7. WDR G
8. WDR B
9. BASS
10. TREBLE
SUB MENU 1. IF
IF
1. VCO
2. DELAY POINT
3. L.V.LEVEL
1-3 : SELECT i : EXIT
1. VCO
VCO (CW)=MAIN ***. ** MHz
MAIN SUB
TOO HIGH
ABOVE REF
JUST REF ← ←
BELOW REF
TOO LOW
i : EXIT
3. L.V.LEVEL
L.V.LEVEL
MAIN **
- + OK : STORE i : EXIT
2. DELAY POINT
DELAY POINT
AGC TAKE-OVER
→ MAIN **
SUB **
- + OK : STORE i : EXIT
SUB MENU 6. STATUS (Do not adjust)
STATUS
VPS = *****(---)
PDC 8 / 30 / 1 = *****
AUTO= ********
SUB= ********
SUB VER ******
MTEXT ****
i : EXIT
SUB MENU 7. PIP
PIP 100Hz
1.MAIN BRIGHT **
- + OK : STORE i : EXIT
1. MAIN BRIGHT
2. MAIN R-Y
3. MAIN B-Y
4. SUB BRIGHT
5. SUB R-Y
6. SUB B-Y
SUB MENU 2. V/C
V/C PAL
1.RGB BLK
- + OK : STORE i : EXIT
1. RGB BLK
2. WDR R
3. WDR G
4. WDR B
5. CUT R
6. CUT G
7. CUT B
8. BRIGHT
9. CONT.
10.COLOUR
11.HUE
12.CONT LIMIT
13.PURITY
SUB MENU 8. OSD/TEXT
OSD / TEXT
1. TEXT MONO H ***
- + OK : STORE i : EXIT
SUB MENU 3. AUDIO(Do not adjust)
AUDIO / OSD
1. CONT LIMIT 0AH
C_AD_BITS = 00000000
- + OK : STORE i : EXIT
1. CONC LIMIT
2. A2 ID THR
SUB MENU 9. SHIPPING
9. SHIPPING (OFF)
9. SHIPPING (ON)
SUB MENU 4. DEF
DEF FULL **Hz
1. V-SHIFT ***
(**)
- + OK : STORE i : EXIT
1. V-SHIFT
2. V-SIZE
3. H-CENT
4. H-SIZE
5. EW-PIN
6. TRAPE
7. COR-UP
8. COR-LO
9. ANGLE
10.BOW
11.V-S.CR
12.V-LIN

Fig. 3 SUB MENU SCREEN

(3) **Method of Setting**

1) Method of Setting **1.IF**

[1. VCO]

① 1 Key························ Select **1.IF**.
② 1 Key························ Select **1.VCO**
③ The VCO (CW) screen will be displayed a allow mark when the AFC voltage is at a certain level.
④ MENU key ···················· Select **MAIN** or **SUB.**
⑤ INFORMATION Key ············ As you press this twice, you will return to the **SERVICE MENU**.

[2. DELAY POINT]

① 1 Key························ Select **1.IF**.
② 2 Key························ Select **2.DELAY POINT**.
③ FUNCTION UP/DOWN key ······ Select **MAIN** or **SUB.**
④ FUNCTION -/+ ················· Set (adjust) the setting values of the setting items.
⑤ MENU Key ···················· Memorize the set value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
⑥ INFORMATION Key ············ When this is pressed twice, you will return to the SERVICE MENU.

[3. L.V.LEVEL]

① 1 Key························ Select **1.IF**.
② 3 Key························ Select **3.L.V.LEVEL**.
③ FUNCTION -/+ Key············· Set (adjust) the setting values of the setting items.
④ MENU Key ···················· Memorize the set value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
⑤ INFORMATION Key ············ When this is pressed twice, you will return to the SERVICE MENU.

2) Method of setting **2.V/C, 3.AUDIO, 4.DEF, 5.VSM PRESET, 7.PIP** and **8.OSD/TEXT.**

① 2~5, 7, 8 Key ················ Select one from **2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET, 7.PIP** and **8.OSD/TEXT**.
② FUNCTION UP/DOUN Key ······ Select setting items.
③ FUNCTION -/+ ················· Set (adjust) the setting values of the setting items.
(When 1.RGB BLK of 2.V/C is selected, press the FUNCTION-/+ key, and the whole will change to a black picture. Press the FUNCTION-/+ or 2 key, and the screen will return to the original screen.)
④ MENU Key ···················· Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key - if you do, the values will not be stored in memory.)
⑤ INFOMATION Key ············· Return to the **SERVICE MENU** screen.

3) Method of setting **6.STATUS** and **9.SHIPPING**.

6.STATUS **(Do not adjust)**········· This mode displayed monitor of VPS. (Video Program Systems)
9.SHIPPING **(Do not adjust)** ······· This mode is set the initial setting value at the time of shipment, you need not to use it for service.

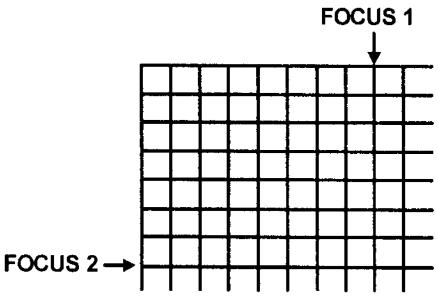
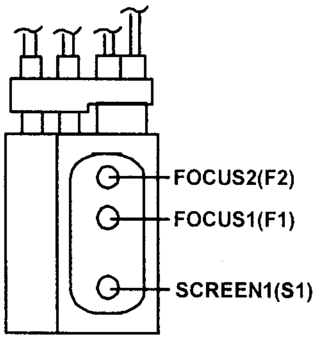
(4) **Release of SERVICE MENU**

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

CHECK ITEM

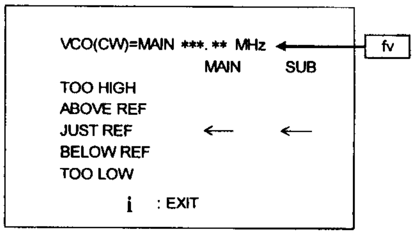
Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power supply	Signal Generator DC voltmeter	TP-91(B1) TP-E(GND ⏚) [X connector on POWER DEF PWB]		1. Receive a any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a DC voltmeter to TP-91(B1) and TP-E(GND ⏚). 6. Make sure that the voltage is DC139.2V±2.0V.
Check of High voltage	Signal generator DC voltmeter	CRT anode		1. Receive a any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a DC voltmeter to CRT ANODE 6. Make sure that the voltage is DC $32.0kV^{+1kV}_{-1.5kV}$

FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS   	Signal generator		FOCUS 1 FOCUS 2 [In FBT]	1. Receive a cross-hatch signal. Select FULL mode. 2. By turning the FOCUS 1 VR, adjust the picture so that the 8th vertical line from the left side of the cross-hatch picture becomes thinnest. 3. By turning the FOCUS 2 VR, adjust the picture so that the 7th horizontal line from the upper side of the cross-hatch picture becomes thinnest. 4. Carry out adjustment by repeating the steps 2 and 3 above. 5. Make sure that when the screen is darkened. the lines remain in good focus.

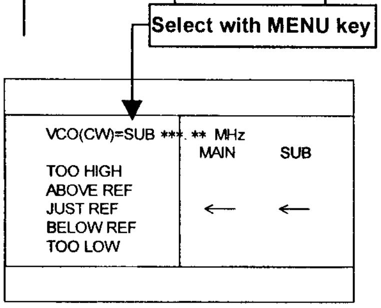
IFCIRCUIT ADJUSTMENT [AV-32WFP1EU]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO [MAIN]	Remote control unit		P. CW TRANSF. (T050) P.L-VL CW TRIM. C (TC052) [On IF PWB]	● Under normal conditions, no adjustment is required. ● It must not adjust without signal. 1. Receive a broadcast. 2. Select 1.IF from the SERVICE MENU. 3. Press 1 key and select 1.VCO. 4. Select a SECAM L or PAL broadcast channel with the CHANNEL key. 5. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO HIGH (Step 1). 6. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO LOW (Step 2). 7. Then slowly turn back the core of P. CW TRANSF. until the arrow mark (←) on the screen points JUST REF (Step 3). 8. In the district where SECAM L'(VHF LOW)s broadcast, can be received, select a SECAM L's broadcast channel with the CHANNEL key and adjust the P.L-VL CW TRIM.C in the same manner as for above steps. And readjust P.CW TRANSF., if necessary. 9. Press the INFORMATION key three times to return to normal screen. 10. Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly.



Screen display	Step		
	1	2	3
TOO HIGH	←		
ABOVE REFERENCE			
JUST REFERENCE			←
BELOW REFERENCE			
TOO LOW		←	

Item	Measuring instrument	Test point	Adjustment part	Description
djustment of VCO [SUB]	Remote control unit		P. CW TRANSF. (T103) P.L-VL CW TRIM. C (TC122) [On P&P PWB]	● Under normal conditions, no adjustment is required. ● It must not adjust without signal. 1. Receive a broadcast. 2. Press the PIP key, the TWIN screen is displayed. 3. Select 1.IF from the SERVICE MENU. 4. Press 1 key and select 1.VCO. 5. Press the MENU key, and select SUB of the VCO screen. 6. Select a SECAM L or PAL broadcast channel with the SUB-P UP (Λ) or DOWN (V) key. 7. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO HIGH (Step 1). 8. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO LOW (Step 2). 9. Then slowly turn back the core of P. CW TRANSF. until the arrow mark (←) on the screen points JUST REF (Step 3). 10. In the district where SECAM L'(VHF LOW)s broadcast, can be received, select a SECAM L's broadcast channel with the SUB-P UP (Λ) or DOWN (V) key. 11. key and adjust the P.L-VL CW TRIM.C in the same manner as for above steps. And readjust P.CW TRANSF., if necessary. 12. Press the INFORMATION key three times to return to normal screen. 13. Make sure that each broadcast is being received properly.

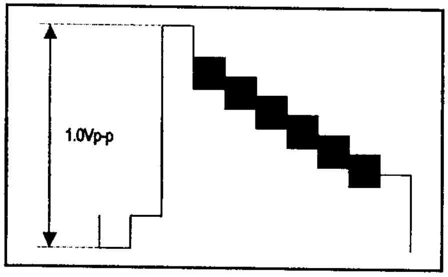


Screen display	Step		
	1	2	3
TOO HIGH	←		
ABOVE REFERENCE			
JUST REFERENCE			←
BELOW REFERENCE			
TOO LOW		←	

[AV-32WFP1EU]

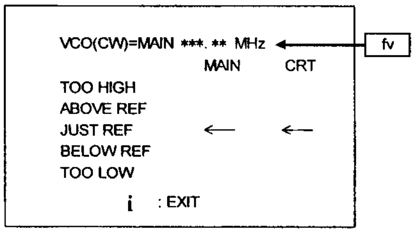
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of DELAY POINT	**Remote control unit**		**DELAY POINT (AGC TAKE-OVER)**	1. Receive a black and white signal (colour off). 2. Select 1.IF from the SERVICE MENU. 3. Select 2.DELAY POINT by pressing the 2 key on the remote control. 4. Select MAIN or SUB with FUNCTION UP/DOWN key. 5. Adjust the FUNCTION - or + key until video noise disappears. 6. Press the MENU key and memorize the set value. 7. Turn to other channels and make sure that there are no irregularities.
Adjustment of L V. LEVEL	**Signal generator** **Oscilloscope [H-rate]** **Remote control unit**	**EXT-1 ⑲pin (TV OUT)**		1. Receive a SECAM-L full field colour bar signal (100% white). 2. Connect an oscilloscope terminated 75Ω to EXT-1 terminal of ⑲pin (TV out). 3. Select 1. IF from the SERVICE MENU. 4. Press 3 key and select 3.LV LEVEL. 5. Adjust the LV LEVEL by FUNCTION -/+ key and make the wave detector output 1.0Vp-p. 6. Press the MENU key and memorize the set value.

Setting item (Adjustment item)	Variable range	Initial setting value	
		MAIN	SUB
DELAY POINT (AGC TAKE-OVER)	0~63	35	25

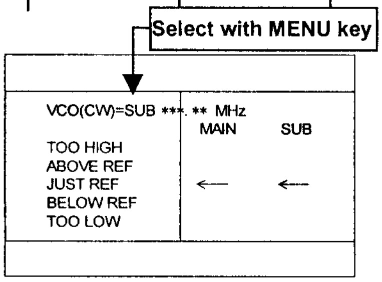


IF CIRCUIT ADJUSTMENT [AV-32WFP1EK]

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr>
<td colspan="4">
<table><tr><td>Adjustment of VCO [MAIN]</td><td>Remote control unit</td><td></td><td>P. CW TRANSF. (T050) [On IF PWB]</td></tr></table>



<table>
<tr><th rowspan="2">Screen display</th><th colspan="3">Step</th></tr>
<tr><th>1</th><th>2</th><th>3</th></tr>
<tr><td>TOO HIGH</td><td>←</td><td></td><td></td></tr>
<tr><td>ABOVE REFERENCE</td><td></td><td></td><td></td></tr>
<tr><td>JUST REFERENCE</td><td></td><td></td><td>←</td></tr>
<tr><td>BELOW REFERENCE</td><td></td><td></td><td></td></tr>
<tr><td>TOO LOW</td><td></td><td>←</td><td></td></tr>
</table>
</td>
<td>
● Under normal conditions, no adjustment is required.
● It must not adjust without signal.
1. Receive a broadcast.
2. Select 1.IF from the SERVICE MENU.
3. Press 1 key and select 1.VCO.
4. Select PAL broadcast channel with the CHANNEL key.
5. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO HIGH (Step 1).
6. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO LOW (Step 2).
7. Then slowly turn back the core of P. CW TRANSF. until the arrow mark (←) on the screen points JUST REF (Step 3).
8. Press the INFORMATION key three times to return to normal screen.
9. Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly.
</td>
</tr>
<tr>
<td colspan="4">
<table><tr><td>Adjustment of VCO [SUB]</td><td>Remote control unit</td><td></td><td>P. CW TRANSF. (T103) [On P&P PWB]</td></tr></table>



<table>
<tr><th rowspan="2">Screen display</th><th colspan="3">Step</th></tr>
<tr><th>1</th><th>2</th><th>3</th></tr>
<tr><td>TOO HIGH</td><td>←</td><td></td><td></td></tr>
<tr><td>ABOVE REFERENCE</td><td></td><td></td><td></td></tr>
<tr><td>JUST REFERENCE</td><td></td><td></td><td>←</td></tr>
<tr><td>BELOW REFERENCE</td><td></td><td></td><td></td></tr>
<tr><td>TOO LOW</td><td></td><td>←</td><td></td></tr>
</table>
</td>
<td>
● Under normal conditions, no adjustment is required.
● It must not adjust without signal.
1. Receive a broadcast.
2. Press the PIP key, the TWIN screen is displayed.
3. Select 1.IF from the SERVICE MENU.
4. Press 1 key and select 1.VCO.
5. Press the MENU key, and select SUB.
6. Select PAL broadcast channel with the SUB-P UP (∧) or DOWN (V) key..
7. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO HIGH (Step 1).
8. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO LOW (Step 2).
9. Then slowly turn back the core of P. CW TRANSF. until the arrow mark (←) on the screen points JUST REF (Step 3).
10. Press the INFORMATION key three times to return to normal screen.
11. Make sure that each broadcast is being received properly.
</td>
</tr>
<tr>
<td colspan="4">
<table><tr><td>Adjustment of DELAY POINT</td><td>Remote control unit</td><td></td><td>DELAY POINT (AGC TAKE-OVER)</td></tr></table>

<table>
<tr><th rowspan="2">Setting item (Adjustment item)</th><th rowspan="2">Variable range</th><th colspan="2">Initial setting value</th></tr>
<tr><th>MAIN</th><th>SUB</th></tr>
<tr><td>DELAY POINT (AGC TAKE-OVER)</td><td>0~63</td><td>35</td><td>25</td></tr>
</table>
</td>
<td>
1. Receive a black and white signal (colour off).
2. Select 1.IF from the SERVICE MENU.
3. Select 2.DELAY POINT by pressing the 2 key on the remote control.
4. Select MAIN or SUB with FUNCTION UP/DOWN key.
5. Adjust the FUNCTION - or + key until video noise disappears.
6. Press the MENU key and memorize the set value.
7. Turn to other channels and make sure that there are no irregularities.
</td>
</tr>
</table>

VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment parts	Description
Setting of VSM PRESET ADJUST	Remote control unit		**1. BRIGHT** **2. CONT.** **3. COLOUR** **4. SHARP** **5. HUE** **6. WDR R** **7. WDR G** **8. WDR B** **9. BASS** **10. TREBLE**	1. Select COOL with the MENU key of the remote control unit. 2. Select 5.VSM PRESET from the SERVICE MENU. 1. Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.BRIGHT ~ 10.TREBLE to the values shown in the table. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above. 6. Press the MENU key and memorize the set value. * Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.

VSM preset mode Setting item	COOL	NORMAL	WARM
1. BRIGHT SETTING VALUE	-1	+0	+0
2. CONT. SETTING VALUE	+10	+4	-4
3. COLOUR SETTING VALUE	+1	-1	+0
4. SHARP SETTING VALUE	+7	+7	+0
5. HUE SETTING VALUE	+0	+0	+0
6. WDR R SETTING VALUE	-16	+5	+11
7. WDR G SETTING VALUE	-4	+6	+5
8. WDR B SETTING VALUE	+0	+0	-6
9. BASS SETTING VALUE	+0	+0	+0
10.TREBLE SETTING VALUE	+0	+0	+0

SETTING VALUES OF VSM PRESET

VIDEO/CHROMA CIRCUIT ADJUSTMENT [MAIN]

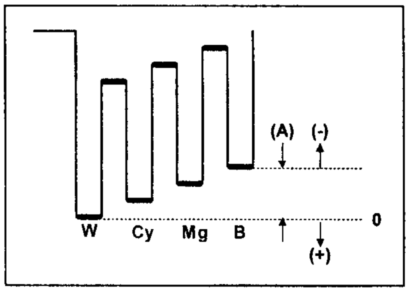
**The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**

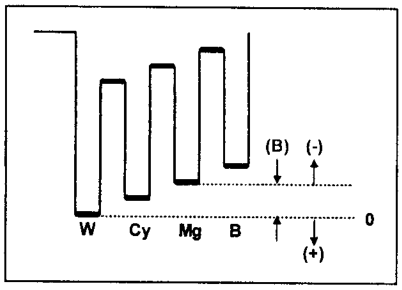
Setting Item (Adjustment Item)	Initial setting value	
	PAL / SECAM	NTSC 3.58 NTSC 4.43
1.RGB BLK	——	——
2.WDR R	+010	——
3.WDR G	-007	——
4.WDR B (Do not adjust)	+000	——
5.CUT R	+000	——
6.CUT G	+000	——
7.CUT B	+000	——

Colour system / Setting item	Initial setting value	
	PAL / SECAM	NTSC 3.58 NTSC 4.43
8.BRIGHT	+000	——
9.CONT	+012	——
10.COLOUR	-008	-011
11.HUE	——	-002
12.CONT. LIMIT(Do not adjust)	+001	——
13.PURITY	+000	——

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE	Signal generator Remote control unit		2.WDR R 3.WDR G 5.CUT R 6.CUT G 7.CUT B	● Set the PICTURE MODE to NORMAL. 1. Receive a black and white signal(colour off). 2. Select 2. V/C from the SERVICE MENU. 3. Modify 2. WDR R and 3.WDR G data to adjust the white balance (high light). 4. Modify 5. CUT R, 6. CUT G and 7. CUT B data to adjust the white balance (low light). 5. Press the MENU key and memorize the set value.
Adjustment of SUB BRIGHT	Remote control unit		8.BRIGHT	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONT.	Remote control unit		9.CONT.	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 9.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR I	**Remote control unit**		**10.COLOUR (PAL~NTSC)**	**[Method of adjustment without measuring instrument]**
			PAL COLOUR	(PAL COLOUR) 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR (Only **AV-32WFP1EU**)	(SECAM COLOUR) 1. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47B** **TP-E(⏚)** **[CRT SOCKET PWB]**	**10.COLOUR (PAL~NTSC)**	**[Method of adjustment using measuring instrument]**
			PAL COLOUR	(PAL COLOUR) 1. Receive a PAL full field colour bar signal(75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to -7V (voltage difference between white (w) and blue (B)). 7. Press the MENU key and memorize the setting value.
			SECAM COLOUR (Only **AV-32WFP1EU**)	(SECAM COLOUR) 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to -6V(W~B). 4. Press the MENU key and memorize the setting value.
			NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to -4V(W~B). 4. Press the MENU key and memorize the setting value.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB HUE I	**Remote control unit**		**11.HUE**	**[Method of adjustment without measuring instrument]**
			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key. 5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of SUB HUE II	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47B** **TP-E(⏚)** **[CRT SOCKET PWB]**	**11.HUE**	**[Method of adjustment using measuring instrument]**
			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -4V (voltage difference between white (W) and magenta(Mg)). 7. Press the MENU key and memorize the setting value
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

VIDEO/CHROMA CIRCUIT ADJUSTMENT [PIP]

Setting Item	Initial setting value	Setting Item	Initial setting value
1. MAIN BRIGHT	**+15**	**4. SUB BRIGHT**	**+15**
2. MAIN R-Y	**+0**	**5. SUB R-Y**	**+0**
3. MAIN B-Y	**+0**	**6. SUB B-Y**	**+0**

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of PIP WHITE BALANCE I	**Signal Generator** **Remote control unit**		**4. SUB BRIGHT** **5. SUB R-Y** **6. SUB B-Y**	1. Receive a colour bar signal. 2. Select 7. PIP from the SERVICE MENU. 3. TWIN PICTURE will be displayed (Fig.1). 4. Select 4. SUB BRIGHT with FUNCTION UP/DOWN key. 5. PIP PICTURE will be displayed (Fig.2). 6. Adjust the bright of PIP so that it falls within the same bright of the MAIN PICTURE. 7. Select 5.SUB R-Y, or 6.SUB B-Y with FUNCTION UP/DOWN key. 8. Adjust the low light of PIP so that it falls within the same low loght of the MAIN PICTURE.

TWIN PICTURE

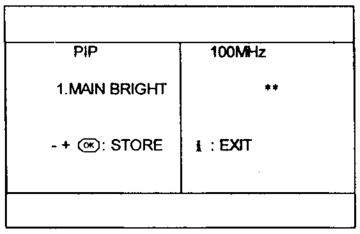


Fig. 1

PIP PICTURE

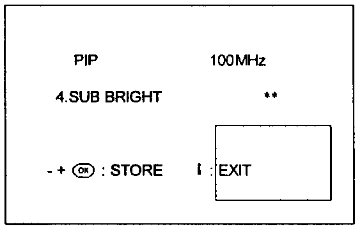


Fig. 2

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of PIP WHITE BALANCE Ⅱ	**Signal Generator** **Remote control unit**		**1. MAIN BRIGHT** **2. MAIN R-Y** **3. MAIN B-Y**	9. Select 1.MAIN BRIGHT with Function UP / DOWN key. 10. TWIN PICTURE will be displayed (Fig. 1) 11. Adjust the bright of RIGHT picture so that it falls within the same bright of the LEFT picture. 12. Select 2.MAIN R-Y, 3.MAIN B-Y. 13. Adjust the low light of RIGHT picture so that it falls within the same low light of the LEFT picture.

TWIN PICTURE

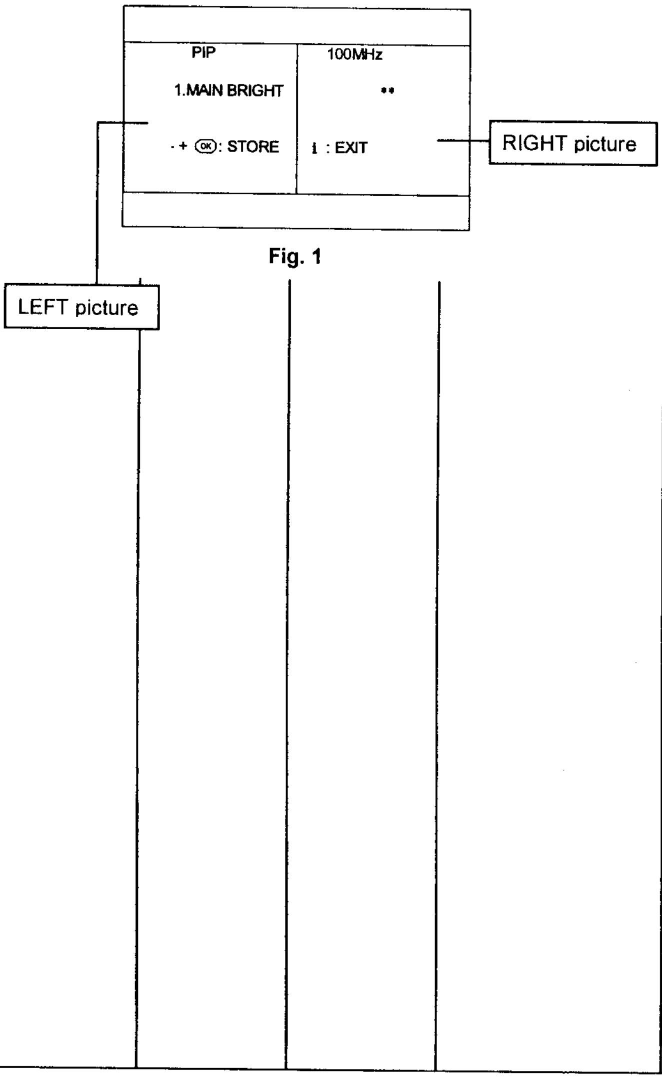

PIP
100MHz
1.MAIN BRIGHT
••
·+ ⓞⓚ: STORE
i : EXIT
RIGHT picture
LEFT picture

Fig. 1

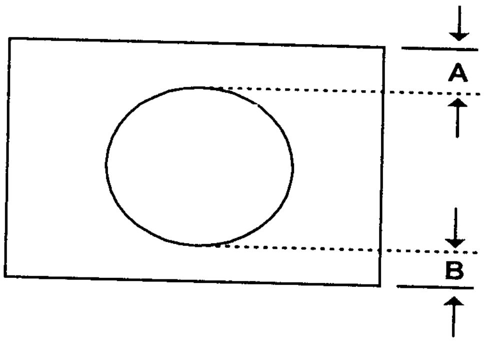
DEFLECTION CIRCUIT ADJUSTMENT

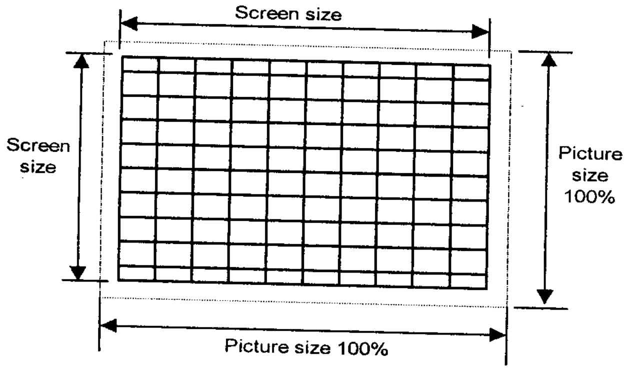
There are 2 modes of the adjustment (1) 100Hz mode (①FULL ②PANORAMIC, ③16:9 ZOOM SUBTITLE), (2) 120Hz mode (each aspect mode) ······ depending upon the kind of signals (vertical frequency 100Hz / 120Hz).

- **When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.**
- **The adjustment using the remote control unit is made on the basis of the initial setting values.**
- **The setting values which adjust the screen to the optimum condition can be different from the initial setting values. Regular and Zoom switching is conducted not by the Deflection circuit, but by the 100 Hz PWB. Therefore, the deflection system cannot be adjusted in these modes.**

Setting item	Adjustment name	Initial setting value					
		FULL		PANORAMIC		16 : 9 ZOOM SUBTITLE	
		100Hz	120Hz	100Hz	120Hz	100Hz	120Hz
1.V- SHIFT	Vertical center	+1	-1	-2	0	-5	-1
2.V-SIZE	Vertical height	0	-1	+2	0	+2	0
3.H-CENT	Horizontal center	-3	-2	+1	0	0	0
4.H-SIZE	Horizontal width	-11	-2	0	0	0	0
5.EW-PIN	Side pin correction	+22	0	+4	+3	+3	+2
6.TRAPEZ	Trapezoidal distortion correction	+6	0	+1	+1	+1	0
7.COR-UP	Corner upper	+2	+1	+1	-3	+2	0
8.COR LO	Corner lower	-6	0	-7	-4	-7	-3
9.ANGLE	Angle correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)
10.BOW	Bow-shaped distortion correction	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)	0 (Fixed)
11.V-S.CR	Vertical heigh correction	+9 (Fixed)	0 (Fixed)	+10 (Fixed)	0 (Fixed)	+11 (Fixed)	0 (Fixed)
12.V-LIN	Vertical Linearity	-6 (Fixed)	+2 (Fixed)	-20 (Fixed)	0 (Fixed)	-30 (Fixed)	0 (Fixed)

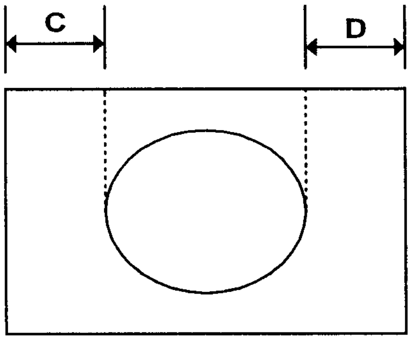
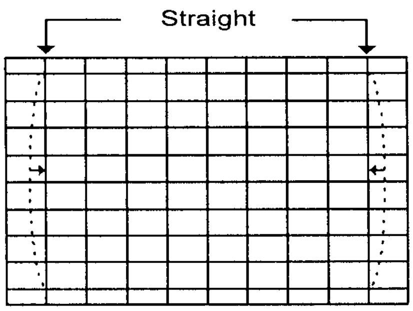
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V-SHIFT	**Signal generator** **Remote control unit**		**1.V- SHIFT**	[FULL mode] 1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key. 4. Adjust V-SHIFT to make **A = B**. 5. Press the MENU key and memorize the set value.
Adjustment of V-SIZE			**2.V-SIZE**	6. Receive a cross-hatch signal. 7. Select 2.V-SIZE and set the initial setting value. 8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table. 9. Press the MENU key and memorize the set value. 10. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below. 11. Press the MENU key and memorize the set value.





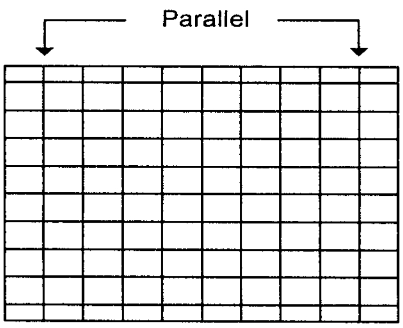
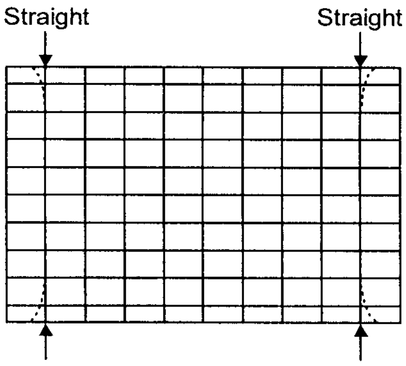
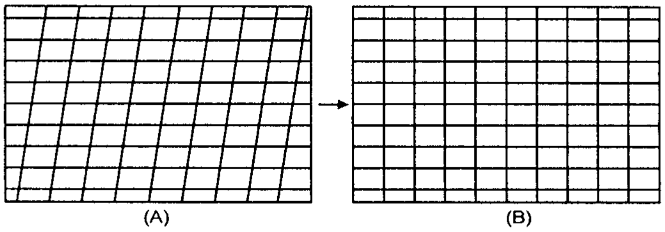
ASPECT MODE	FULL	PANORAMIC	16:9 ZOOM SUB TITLE
SCREEN TOP	92%	87%	70%
SCREEN BOTTOM	92%	87%	83%

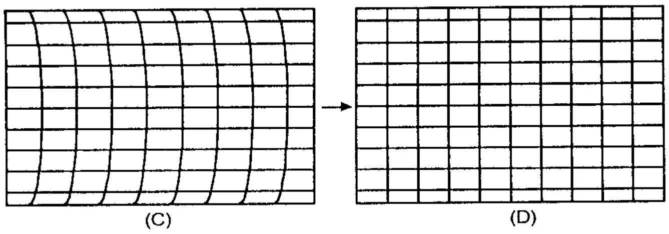
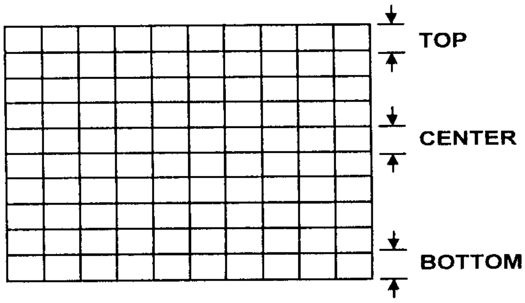
[SCREEN SIZE]

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of H.CENTER  	Signal generator Remote control unit		3.H-CENT.	12. Receive a circle pattern signal. 13. Select 4.H-CENT and set the initial setting value. 14. Adjust H-CENT to make **C=D**. 15. Press the MENU key and memorize the set value.
Adjustment of H.SIZE			4.H-SIZE	16. Receive a cross-hatch signal. 17. Select 4.H-SIZE and set the initial setting value. 18. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table. 19. Press the MENU key and memorize the set value. 20. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size is in the table below. 21. Press the MENU key and memorize the set value.
Adjustment of EW-PIN  			5.EW-PIN	22. Select 5.EW-PIN and set the initial setting value 23. Adjust EW-PIN and make the 2nd.vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 24. Press the MENU key and memorize the set value.

ASPECT MODE	FULL	PANORAMIC	16:9 ZOOM SUBTITLE
H SIZE	92%	95%	92%

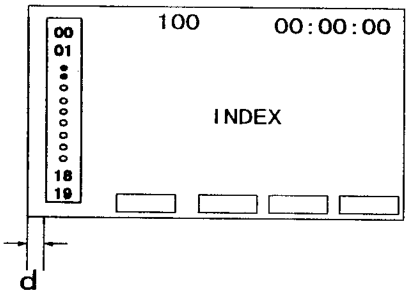
[SCREEN SIZE]

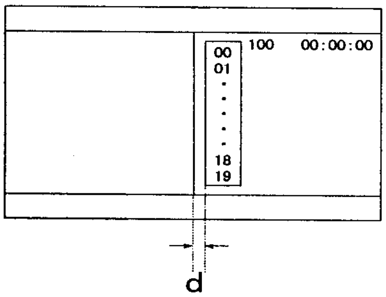
Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ  	**Signal generator** **Remote control unit**		**6.TRAPEZ**	25. Receive a cross-hatch signal. 26. Select 6.TRAPEZ with the FUNCTION UP/DOWN key. 27. Set the initial setting value of TRAPEZ with the FUNCTION - or + key. 28. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel . 29. Press the MENU key and memorize the set value.
Adjustment of CORNER UP/ LOW  	**Signal generator** **Remote control unit**		**7.COR-UP** **8.COR-LO**	30. Select 8.COR-LO with the FUNCTION UP / DOWN key. 31. Set the initial setting value of COR-LO with the FUNCTION – or + key. 32. Adjust COR-LO, and bring the straight line at the low corner. 33. Select 7.COR-UP with the FUNCTION UP / DOWN key. 34. Set the initial setting value of COR-UP with the FUNCTION – or + key. 35. Adjust COR-UP, and bring the straight line at the upper corner. 36. Press the MENU key and memorize the set value.
Adjustment of ANGLE  	**Signal generator** **Remote control unit**		**9.ANGLE**	● In case where there is a parallelogrammical distortion of images on the screen. (Fig. A) 37. Select 9.ANGLE with the FUNCTION UP / DOWN key. 38. Adjust ANGLE, and bring the VERTICAL lines straight. 39. Press the MENU key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BOW  (C) (D)	**Signal generator** **Remote control unit**		**10.BOW**	● In case where there is a bow-shaped distortion of images on the screen. (Fig.C) 40. Select 10.BOW with the FUNCTION UP/DOWN key. 41. Adjust BOW, and bring the VERTICAL lines straight. 42. Press the MENU key and memorize the set value.
Adjustment of V-S.CR & V.LINE  			**11.V-S.CR** **12.V.LIN.**	● When the vertical linearity has been deteriorated remarkably, perform the following steps. 43. Receive a cross-hatch signal. 44. Select **12. V.LIN** with the FUNCTION UP / DOWN key. 45. Set the initial setting value of **12. V.LIN** with the FUNCTION - / + key. 46. Select **11. V-S.CR**. with the FUNCTION UP / DOWN key. 47. Set the initial setting value of **11. V-S.CR**. with the FUNCTION - / + key. 48. Adjust **12. V.LIN** and **11. V-S.CR**. so that the spaces of each line on **TOP, CENTER**, and **BOTTOM** become uniform. NOTE : Do not adjust "PANORAMIC" & "16 : 9 ZOOM SUBTITLE" mode.
				At first the adjustment in 100Hz-FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 120Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 120Hz is corrected in the respective value. Only the data for the other aspect mode in 120Hz is corrected for itself.

TEXT CIRCUIT ADJUSTMENT

Setting item	Variable rang	Initial setting Value
1. TEXT MONO H	00H ~ FFH	0DH
2. TEXT MIX H	00H ~ FFH	00H

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>Adjustment of TEXT MONO HORIZONTAL POSITION</td><td></td><td></td><td>1.TEXT MONO H</td><td rowspan="2">● Under normal conditions, no adjustment is required.
1. Select 8.OSD / TEXT from SERVICE MENU.
2. Select 1.TEXT MONO H with the FUNCTION UP/DOWN key.
3. Push text key to get a picture of “TEXT-MONO H”.
4. Push “SUBPAGE” key. It gets a picture as shown left.
5. Adjust the value of the distance “d” as shown left with the FUNCTION -/+ key.
Push “SUBPAGE” key to check adjustment every adjust.
6. Press the MENU Key, and memorize the set values.</td></tr>
<tr><td colspan="4">

<table><tr><th>MODEL</th><th>d</th></tr><tr><td>ALL MODELS</td><td>5~20mm</td></tr></table></td></tr>
<tr><td>Adjustment of TEXT MIX HORIZONTAL POSITION</td><td></td><td></td><td>2.TEXT MIX H</td><td rowspan="2">1. Select 8.OSD / TEXT from SERVICE MENU.
2. Select 2.TEXT MIX H with the FUNCTION UP / DOWN key.
3. Press the TEXT key to gets a screen of TEXT MODE.
4. Press the “SUBPAGE” key . It gets a picture as shown left.
5. Adjust the value of the distance “d” as shown left table with the FUNCTION – or + key.
6. Press the MENU key, and memorize the set values.</td></tr>
<tr><td colspan="4">

<table><tr><th>MODEL</th><th>d</th></tr><tr><td>ALL MODELS</td><td>3~10mm</td></tr></table></td></tr>
</table>

AUDIO CIRCUIT ADJUSTMENT

3. AUDIO

Setting item	Variable range	fixed value
1. CONC LIMIT***(Do not adjust)***	00H～FFH	0AH
2. A2 ID THR***(Do not adjust)***	00H～FFH	19H

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

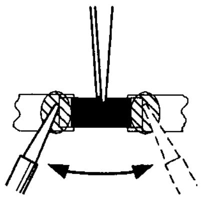
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

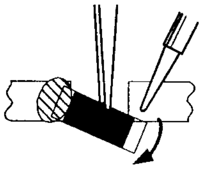
1. How to remove Chip parts

◆ Resistors, capacitors, etc

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

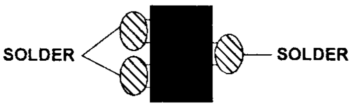


(2) Shift with tweezers and remove the chip part.

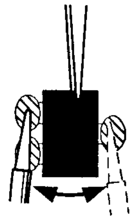


◆ Transistors, diodes, variable resistors, etc

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

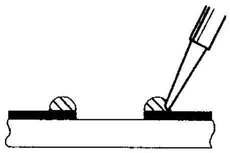


Note : After removing the part, remove remaining solder from the pattern.

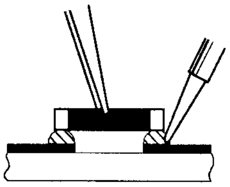
2. How to install Chip parts

◆ Resistors, capacitors, etc

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

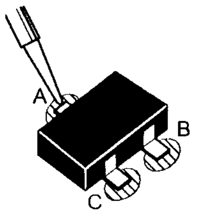


◆ Transistors, diodes, variable resistors, etc

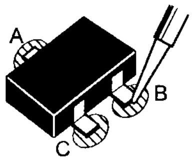
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

- ■ USING PW BOARD & REMOTE CONTROL UNIT 41
- ■ REMOTE CONTROL UNIT PARTS LIST 41
- ■ EXPLODED VIEW PARTS LIST (AV-32WFP1EU) 42
- ■ EXPLODED VIEW PARTS LIST (AV-32WFP1EK) 43
- ■ EXPLODED VIEW I 44
- ■ EXPLODED VIEW II 45
- ■ PRINTED WIRING BOARD PARTS LIST

AV-32WFP1EU

- ● MAIN PW BOARD ASS'Y 46
- ● POWER / DEF PW BOARD ASS'Y 51
- ● CRT SOCKET PW BOARD ASS'Y 53
- ● AUDIO PW BOARD ASS' Y 54
- ● FRONT CONTROL PW BOARD ASS'Y 54
- ● DOLBY PW BOARD ASS'Y 55
- ● IF PW BOARD ASS'Y 57
- ● AV TERMINAL PW BOARD ASS'Y 58
- ● P&P PW BOARD ASS'Y 59
- ● SUB MICON & AUTO PANORAMA PW BOARD ASS'Y 61
- ● 100Hz PW BOARD ASS'Y 62

AV-32WFP1EK

- ● MAIN PW BOARD ASS'Y 65
- ● POWER / DEF PW BOARD ASS'Y 70
- ● CRT SOCKET PW BOARD ASS'Y 70
- ● AUDIO PW BOARD ASS' Y 70
- ● FRONT CONTROL PW BOARD ASS'Y 70
- ● DOLBY PW BOARD ASS'Y 70
- ● IF PW BOARD ASS'Y 70
- ● AV TERMINAL PW BOARD ASS'Y 71
- ● P&P PW BOARD ASS'Y 71
- ● SUB MICON & AUTO PANORAMA PW BOARD ASS'Y 73
- ● 100Hz PW BOARD ASS'Y 73

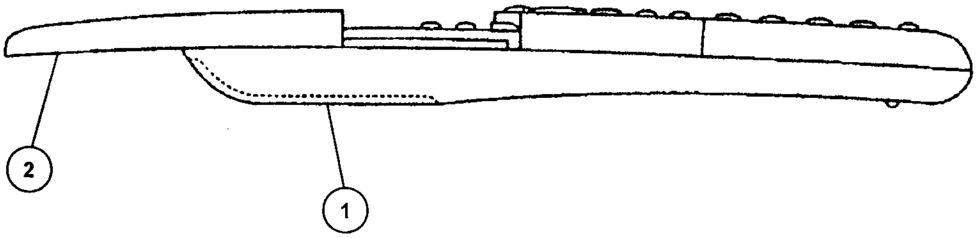
- ■ PACKING 74
- ■ PACKING PARTS LIST 75

USING PW BOARD & REMOTE CONTROL UNIT

Model / PWB ASS'Y	AV-32WFP1EU	AV-32WFP1EK
MAIN PWB	SMD-1001A-U2	SMD-1901A-U2
POWER / DEF PWB	SMD-2001A-U2	←
P & P PWB	SMD0P001A-U2	SMD0P901A-U2
DOLBY PWB	SMD0D001A-U2	←
IF PWB	SMD0F001A-U2	SMD0F902A-U2
SUB MICON & AUTO PANORAMA PWB	SMD0W001A-U2	←
100Hz PWB	SMD0Z001A-U2	←
CRT SOCKET PWB	SMD-3001A-U2	←
AUDIO PWB	SMD-6001A-U2	←
FRONT CONTROL PWB	SMD-8001A-U2	←
AV TERMINAL PWB	SMD0J001A-U2	←
REMOTE CONTROL UNIT	RM-C787-1E	RM-C786-1E

REMOTE CONTROL UNIT PARTS LIST
[AV-32WFP1EU : RM-C787-1E / AV-32WFP1EK : RM-C786-1E]

⚠ Ref. No.	Part No.	Part Name	Description	Local
RM-C787-1E				
1	BGV110202A	BATTERY COVER		
2	BGV110312A	SLIDE COVER		
RM-C786-1E				
1	BGV110202A	BATTERY COVER		
2	BGV110311A	SLIDE COVER		



AV-32WFP1EU

EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	W76LPX955X01	PICTURE TUBE/ITC	Inc.DY,PC,WED	
⚠	L01	QQW0037-001	DEG COIL		
⚠	L03	QQW0040-001	ROTATION COIL		
⚠	T2551	QQH0053-002-I2	FBT	(SERVICE)	
⚠	1	LC10378-001B-U	REAR COVER		*
	2	GBSA4016N	TAPPING SCREW	(×13)For REAR COVER	*
⚠	3	LC20380-001A-U	RATING LABEL	For ENG/GER/FRA	*
⚠	4	LC20379-001A-U	RATING LABEL	For ENG/GER/ITA	*
	5	CM12923-A01-E	CHASSIS BASE		*
	6	LC10381-001A-U	AV BOARD		*
	7	SBSB3012M	TAPPING SCREW	(×9)For AV BOARD	*
	8	LC10380-001B-U	CONTROL BASE L		*
	9	LC10380-002A-U	CONTROL BASE R		*
	10	CHGY0017-0A-YS	ANTENNA CABLE	(×2)	*
	11	CHFD125-14BD	FFC WIRE		*
⚠	12	AEEMP001-185	POWER CORD		*
⚠	13	CM46618-A01-E	POWER CORD CLAMP		*
	14	WJY0007-001A	E-BRAIDED ASSY		*
	15	QNZ0407-001	ANODE WIRE ASSY		*
	16	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02	*
	17	QAS0030-001	SPEAKER	SP03	*
	18	CEBSF02K-01KJ6	SPEAKER	(×2)SP04,SP05	*
	19	2528MXSP-2SE	DOME SPK BOX	(×2)	*
	20	LC30820-001A	SP SPACER	(×4)	
	21	LC40506-001A	TAPPING SCREW	(×4)For HORN ADAPTER	
	22	CM12921-001-E	DOME ADAPTER	(×2)	*
	23	CM12922-A01-E	DOME BOX	(×2)	*
	24	LC10379-001A-U	HORN ADAPTER	(×2)	*
	25	GBSA4016N	TAPPING SCREW	(×8)For SPEAKER	*
	26	CHGS0033-0B	SPEAKER WIRE	(×2)	*
	27	GBSA4020N	TAPPING SCREW	(×4)For DOME SPEAKER	*
	28	QQR0491-001	FILTER		
	29	LC40226-001A	SPACER	(×4)	
	30	GBSA4016N	TAPPING SCREW	(×20)For DOME BOX	
	31	CE42112-002	PALJ CONNECTOR		
	100	LC10376-001B-U	F.CABINET ASSY	Inc.No.101~108	*
	101	CM48229-00A	DOOR LATCH		*
	102	CM35235-003-H	SPRING		*
	103	LC30579-001A-U	REMOCON WINDOW		*
	104	LC30580-001A-U	LED LENS		*
	105	LC30597-002A-U	CONTROL SHEET		*
	106	LC40354-001B-C	JVC MARK		*
	107	LC20265-002A-U	DOOR		*
	108	LC30578-002A-U	POWER KNOB		*

AV-32WFP1EK

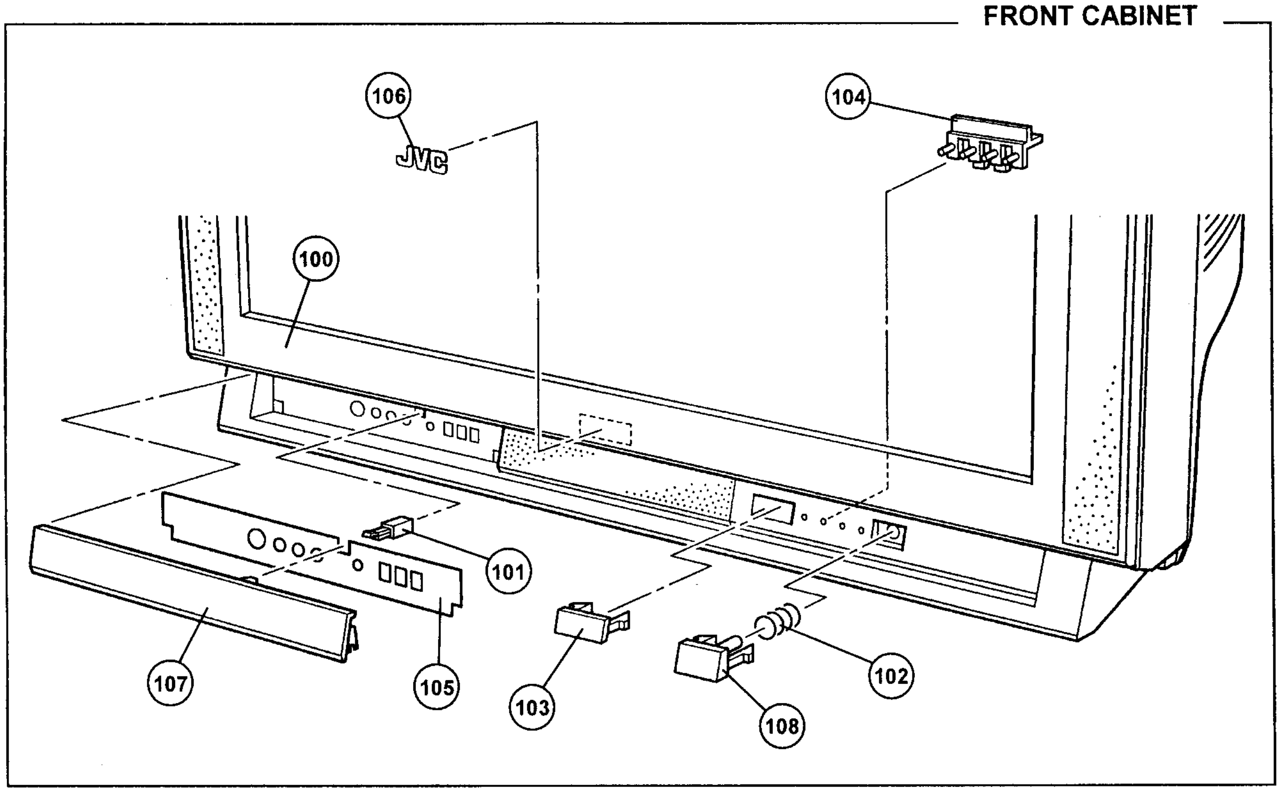
EXPLODED VIEW PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	W76LPX955X01	PICTURE TUBE/ITC	Inc.DY,PC,WED	
⚠	L01	QQW0037-001	DEG COIL		
⚠	L03	QQW0040-001	ROTATION COIL		
⚠	T2551	QQH0053-002-I2	FBT	(SERVICE)	
⚠	1	LC10378-001B-U	REAR COVER		*
	2	GBSA4016N	TAPPING SCREW	(×13)For REAR COVER	*
⚠	3	LC20091-002A-U	RATING LABEL		*
	5	CM12923-A01-E	CHASSIS BASE		*
	6	LC10381-001A-U	AV BOARD		*
	7	SBSB3012M	TAPPING SCREW	(×9)For AV BOARD	*
	8	LC10380-001B-U	CONTROL BASE L		*
	9	LC10380-002A-U	CONTROL BASE R		*
	10	CHGY0017-0A-YS	ANTENNA CABLE	(×2)	*
	11	CHFD125-14BD	FFC WIRE		*
⚠	12	AEEMP003-185A	POWER CORD		*
⚠	13	CM46618-A01-E	POWER CORD CLAMP		*
	14	WJY0007-001A	E-BRAIDED ASSY		*
	15	QNZ0407-001	ANODE WIRE ASSY		*
	16	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02	*
	17	QAS0030-001	SPEAKER	SP03	*
	18	CEBSF02K-01KJ6	SPEAKER	(×2)SP04,SP05	*
	19	2528MXSP-2SE	DOME SPK BOX	(×2)	*
	20	LC30820-001A	SP SPACER	(×4)	
	21	LC40506-001A	TAPPING SCREW	(×4)For HORN ADAPTER	
	22	CM12921-001-E	DOME ADAPTER	(×2)	*
	23	CM12922-A01-E	DOME BOX	(×2)	*
	24	LC10379-001A-U	HORN ADAPTER	(×2)	*
	25	GBSA4016N	TAPPING SCREW	(×8)For SPEAKER	*
	26	CHGS0033-0B	SPEAKER WIRE	(×2)	*
	27	GBSA4020N	TAPPING SCREW	(×4)For DOME SPEAKER	*
	28	QQR0491-001	FILTER		
	29	LC40226-001A	SPACER	(×4)	
	30	GBSA4016N	TAPPING SCREW	(×20)For DOME BOX	
	31	CE42112-002	PALJ CONNECTOR		
	100	LC10376-001B-U	F.CABINET ASSY	Inc.No.101~108	*
	101	CM48229-00A	DOOR LATCH		*
	102	CM35235-003-H	SPRING		*
	103	LC30579-001A-U	REMOCON WINDOW		*
	104	LC30580-001A-U	LED LENS		*
	105	LC30597-002A-U	CONTROL SHEET		*
	106	LC40354-001B-C	JVC MARK		*
	107	LC20265-002A-U	DOOR		*
	108	LC30578-002A-U	POWER KNOB		*

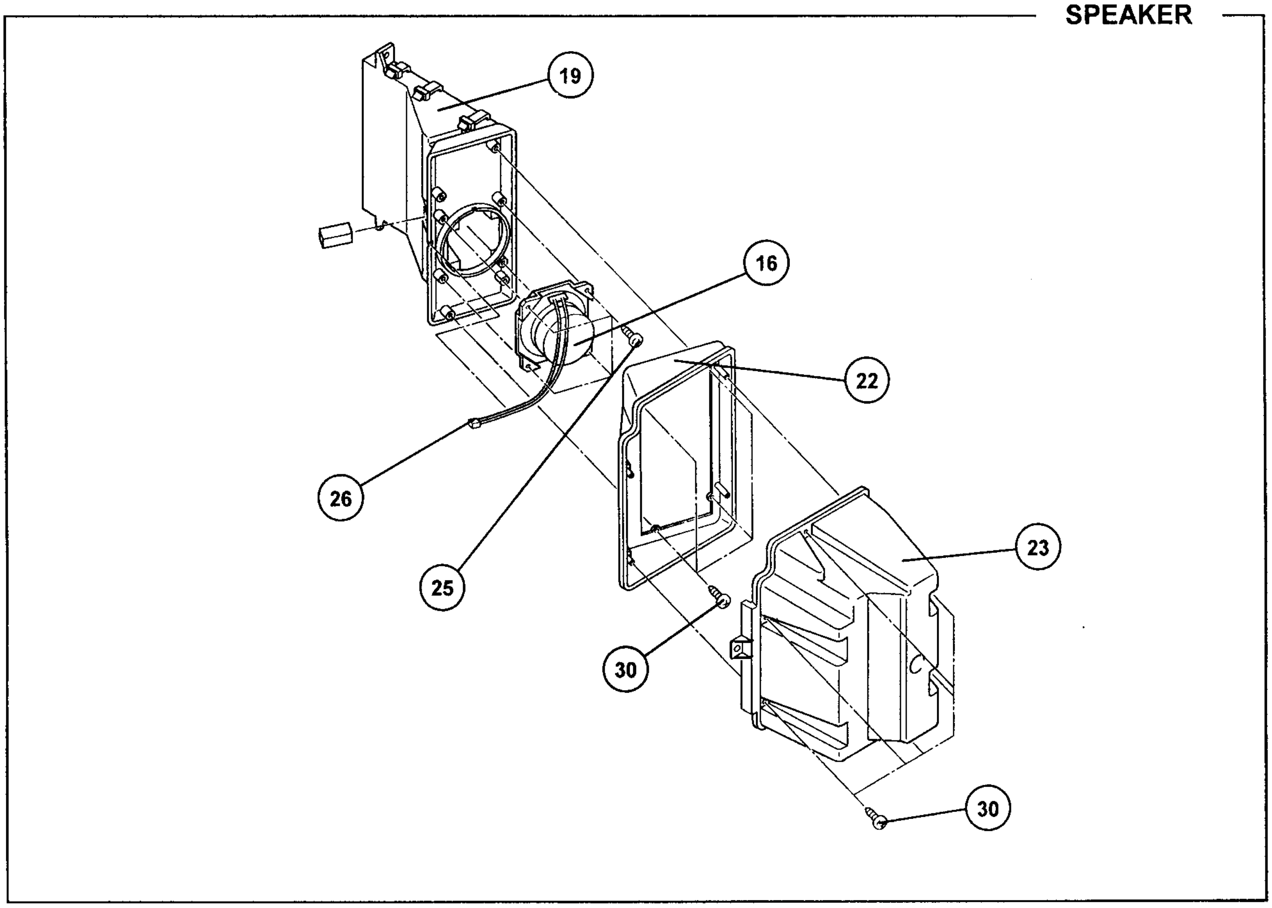
AV-32WFP1EU / AV-32WFP1EK

EXPLODED VIEW Ⅰ

FRONT CABINET

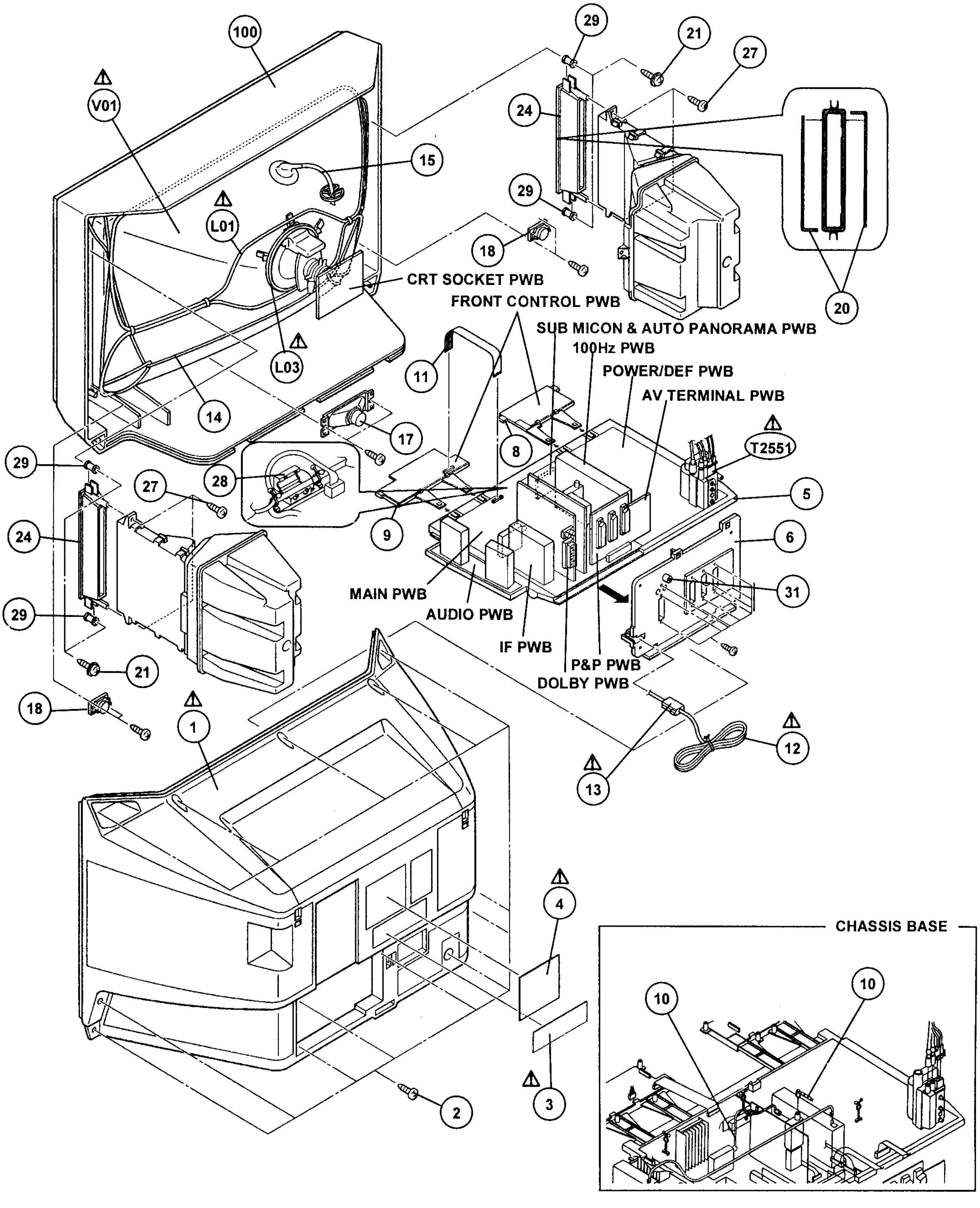

106
JVC
104
100
101
107
105
103
108
102

SPEAKER


19
16
22
26
25
23
30
30

AV-32WFP1EU / AV-32WFP1EK

EXPLODED VIEW Ⅱ


100
⚠ V01
15
⚠ L01
⚠ L03
14
CRT SOCKET PWB
FRONT CONTROL PWB
SUB MICON & AUTO PANORAMA PWB
100Hz PWB
POWER/DEF PWB
AV TERMINAL PWB
⚠ T2551
29
21
27
24
29
18
20
11
8
17
28
29
27
24
29
21
18
9
5
6
31
MAIN PWB
AUDIO PWB
IF PWB
P&P PWB
DOLBY PWB
⚠ 1
⚠ 12
⚠ 13
⚠ 4
⚠ 3
2
CHASSIS BASE
10
10

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1001A-U2)

RESISTOR

Δ	Symbol No.	Part No.	Part Name	Description	Local
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1204	QRK126J-151X	C R	150Ω 1/2W J	
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1206	QRG01GJ-101	OM R	100Ω 1W J	*
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1228	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R1229	QRK126J-181X	C R	180Ω 1/2W J	*
	R1231	QRG01GJ-101	OM R	100Ω 1W J	*
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1292	NRSA02J-471X	MG R	470Ω 1/10W J	
	R1301	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1303	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J	*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R1307	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1309	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R1313	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1316	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1319	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1321	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1331	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1348	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R1351	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1372	NRSA02J-274X	MG R	270kΩ 1/10W J	*
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1382	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1383	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J	*
	R1405	QRL029J-221	OM R	220Ω 2W J	
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J	*
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J	*
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1574	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J	*
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	R1571	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1572	NRSA02J-124X	MG R	120kΩ 1/10W J	*
	R1573	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1575	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1576	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1577	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1578	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1579	NRSA02J-154X	MG R	150kΩ 1/10W J	*
	R1580	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1581	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	R1582	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1583	QRK126J-681X	C R	680Ω 1/2W J	
	R1584	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1585	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1601	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1602	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1610	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1611	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1617-18	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1619	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1620	NRSA02J-223X	MG R	22kΩ 1/10W J	
	R1658-60	QRN143J-2R2X	C R	2.2Ω 1/4W J	*
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1662-64	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1667	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1672	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R1673	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1674	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1675	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1676	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1677	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1678	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1679	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1680	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1689-90	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1691-92	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1693-94	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1700	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1701	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1702	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1703-06	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1707	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R1740-42	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1748	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1782	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1784-86	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1787	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1788	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1789	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1795	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1796	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1897	QRG029J-220	OM R	22 Ω 2W J	*
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1001	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1002	QETN1HM-107Z	E CAP.	100μF 50V M	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1003	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1004	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1005	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1006	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C1008	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1101-02	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1104	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1105	QENC1HM-474Z	BP E CAP.	0.47μF 50V M	*
	C1106	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1107	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C1121-22	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1123	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1124-25	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1128	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1129	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1130	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1131	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1132	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1134	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J	*
	C1136-39	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1140	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1141	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1151	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C1152	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1153	QETN1AM-107Z	E CAP.	100μF 10V M	*
	C1154	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1155	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1161	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1163	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J	*
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1192	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1193	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1201	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1203-04	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1205-06	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1207	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1212-13	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1214-15	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1216-17	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1218-19	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1220	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1221-22	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1223-24	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1231-33	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1301	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1302	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1303	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1304	QENC1CM-476Z	BP E CAP.	47μF 16V M	*
	C1305	QETN1HM-226Z	E CAP.	22μF 50V M	*
	C1306	NCB21HK-223X	C CAP.	0.022μF 50V K	*
	C1307-08	QENC1HM-105Z	BP E CAP.	1μF 50V M	*
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J	*
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C1315	NCB21CK-474X	C CAP.	0.47μF 16V K	*
	C1316	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1317	NCB21EK-154X	C CAP.	0.15μF 25V K	
	C1318	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1320	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C1323	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1327	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1341	QENC1HM-105Z	BP E CAP.	1µF 50V M	*
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1362	NDC21HJ-330X	C CAP.	33pF 50V J	*
	C1363-65	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1381-84	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1387-88	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1389-90	QETN0JM-228Z	E CAP.	2200µF 6.3V M	*
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1403	QFLC2AJ-104Z	M CAP.	0.1µF 100V J	*
	C1404	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J	*
	C1406	QETM1VM-108	E CAP.	1000µF 35V M	*
	C1408	QETN1VM-337Z	E CAP.	330µF 35V M	*
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47µF 50V J	*
	C1412	QFLC2AJ-104Z	M CAP.	0.1µF 100V J	*
	C1417-18	QETN1CM-108Z	E CAP.	1000µF 16V M	*
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C1461	QETN1HM-226Z	E CAP.	22µF 50V M	*
	C1551-52	NCB21CK-224X	C CAP.	0.22µF 16V K	
	C1553	QETN1EM-476Z	E CAP.	47µF 25V M	*
	C1554-55	NCB21CK-224X	C CAP.	0.22µF 16V K	
	C1571-72	NCB21CK-474X	C CAP.	0.47µF 16V K	*
	C1573	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1575-76	NCB21CK-474X	C CAP.	0.47µF 16V K	*
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J	*
	C1603-04	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C1605-06	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1607-08	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C1609-12	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1615	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C1616-18	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1619	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C1620	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J	*
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1629	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C1630	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C1631	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C1632	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C1643	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J	*
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J	*
	C1651-53	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1654	QETN1HM-107Z	E CAP.	100µF 50V M	*
	C1655	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1656-57	NCF21HZ-224X	C CAP.	0.22µF 50V Z	*
	C1658	QETM1HM-228	E CAP.	2200µF 50V M	*
	C1659-62	NCF21HZ-224X	C CAP.	0.22µF 50V Z	*
	C1663-65	QETM1VM-108	E CAP.	1000µF 35V M	*
	C1667	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C1668-69	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1670	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1671	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1672	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C1673	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1674	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C1675	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C1679	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1680-81	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1682	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C1703	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1704	QETN1AM-107Z	E CAP.	100µF 10V M	*
	C1705-06	NDC21HJ-2R0X	C CAP.	2.0pF 50V J	*
	C1707	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1708	NCB21HK-333X	C CAP.	0.033µF 50V K	*
	C1709	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1710	QETN1EM-476Z	E CAP.	47µF 25V M	*
	C1711	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1712	NCB21HK-333X	C CAP.	0.033µF 50V K	*
	C1713	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1714	QETN1HM-474Z	E CAP.	0.47µF 50V M	*
	C1715	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1717	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1719	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J	*
	C1758	QETN1AM-227Z	E CAP.	220µF 10V M	*
	C1759	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C1762	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1763	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1764	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1769-71	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C1772	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C1773	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J	*
	C1780	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J	*
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J	*
	C1784	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C1901	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C1902	QETN1HM-106Z	E CAP.	10µF 50V M	*

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T1101	CE42697-001	LOWPASS FILTER		
	T1111	CE42697-001	LOWPASS FILTER		
	T1121	CE42697-001	LOWPASS FILTER		

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L1001-02	QQL01BK-8R2Z	COIL	8.2µH	*
	L1003	QQL01BK-221Z	COIL	220µH	*
	L1004	QQL01BK-5R6Z	COIL	5.6µH	*
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1102-05	QQL03BJ-220Z	COIL	22µH	*
	L1111	QQL03BJ-220Z	COIL	22µH	*
	L1121	QQL03BJ-330Z	COIL	33µH	*
	L1301	QQL01BK-390Z	COIL	39µH	*
	L1302	NQL024J-5R6X	COIL	5.6µH	
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1604	QQL01BJ-180Z	COIL	18µH	*
	L1605	QQL01BJ-220Z	COIL	22µH	*
	L1701	QQL01BK-4R7Z	COIL	4.7µH	*
	L1702	QQL01BK-5R6Z	COIL	5.6µH	*
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1753	QQL01BK-4R7Z	COIL	4.7µH	*

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D1201-11	MA3130/H/-X	ZENER DIODE		*
	D1214-15	MA3130/H/-X	ZENER DIODE		*
	D1402	BYD33D-T3	SI.DIODE		*
	D1403-04	MA3330/L/-X	ZENER DIODE		
	D1461	MA111-X	SI.DIODE		*
	D1462	MA3220/M/-X	ZENER DIODE		*
	D1502	MA111-X	SI.DIODE		*
	D1504	MA111-X	SI.DIODE		*
	D1653-55	MA3330/L/-X	ZENER DIODE		
	D1658	MA153A-X	SI.DIODE		
	D1660	MA111-X	SI.DIODE		*
	D1661	MA153A-X	SI.DIODE		
	D1664-65	MA111-X	SI.DIODE		*
	D1666	MA3062/M/-X	ZENER DIODE		*
	D1667-68	MA3150/M/-X	ZENER DIODE		*
	D1701-02	MA111-X	SI.DIODE		*
	D1704	1SS244-T2	SI.DIODE		
	D1708	MA111-X	SI.DIODE		*
	D1709	MA3068/M/-X	ZENER DIODE		*
	D1710	MA111-X	SI.DIODE		*
	D1712	MA111-X	SI.DIODE		*
	D1751-53	MA111-X	SI.DIODE		*
	D1754	MA3062/M/-X	ZENER DIODE		*
	D1771-74	MA3056/M/-X	ZENER DIODE		*
	D1901	MA3130/H/-X	ZENER DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR		*
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR		*
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR		*
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1301	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1345	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1571	2SA966/OY/-T	SI.TRANSISTOR		*
	Q1572	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1601	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1602	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1654-56	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1658-60	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1753	DTC124EKA-X	DIGI.TRANSISTOR		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC1101	TC9090AN	I.C.(DIGI-MOS)		
	IC1301	CXA1545AS	I.C.(MONO-ANA)		*
	IC1302	LA7222	I.C.(MONO-ANA)		
	IC1303	TDA9143/N3	I.C.(MONO-ANA)		*
	IC1304	TDA4665	I.C.(MONO-ANA)		*
	IC1305	LA7016	I.C.(MONO-ANA)		*
	IC1401	LA7841	I.C.(MONO-ANA)		
	IC1551	LA6515	I.C.(MONO-ANA)		
	IC1571	LA6515	I.C.(MONO-ANA)		
	IC1601	MSP3410D-PP-B4	I.C.(DIGI-OTHER)		*
	IC1651	TA8256BH	I.C.(HYBRID)		
	IC1652	BA4558F-X	I.C.(MONO-ANA)		*
	IC1701	M37280MK-101SP	I C		
	IC1702	L78LR05E-MA	I.C.(MONO-ANA)		*
	IC1703	AT24C1632WFP1	I.C.	(SERVICE)	
	IC1754	SDA5275S	I.C.(MICRO-PROC)		*
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)		
	IC1756	TC4053BP/N/	I.C.(DIGI-MOS)		

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
		CEMS009-064	I.C.SOCKET		
	CN1002	CHC108N-25T-AE	FFC CONNECTOR		*
	CN1008	CHA401B-35P-J	HQF PLUG		*
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	K1101	CE41433-001Z	BEADS CORE		*
	K1401	CE41433-001Z	BEADS CORE		*
	K1701	CE41433-001Z	BEADS CORE		*
	LC1101	CE42142-222Z	EMI FILTER		
	LC1601	CE42142-103Z	EMI FILTER		*
	TU1001	CEEK481-A03	TUNER		*
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	X1311	CE40749-001Z	CRYSTAL		*
	X1312	CE40668-001Z	CRYSTAL		*
	X1601	CE42546-001Z	CRYSTAL		*
	X1701	CST8.00MTW	CER.RESONATOR		*
	X1752	QAX0351-001Z	CRYSTAL		*
	Y1306	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1314	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	Y1315-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1324-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1651-52	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1654	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1750-51	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

POWER / DEF PW BOARD ASS'Y (SMD-2001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R2451	QRE141J-272Y	C R	2.7kΩ 1/4W J	*
	R2455	QRE141J-102Y	C R	1kΩ 1/4W J	*
	R2456	QRE141J-473Y	C R	47kΩ 1/4W J	*
	R2457	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2458	QRE141J-273Y	C R	27kΩ 1/4W J	*
	R2459	QRE141J-272Y	C R	2.7kΩ 1/4W J	*
	R2460	QRE141J-473Y	C R	47kΩ 1/4W J	*
	R2461	QRE141J-102Y	C R	1kΩ 1/4W J	*
	R2463	QRG029J-820	OM R	82 Ω 2W J	*
	R2465	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2501	QRE141J-471Y	C R	470Ω 1/4W J	*
	R2502	QRE141J-123Y	C R	12kΩ 1/4W J	*
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J	*
	R2504	QRG039J-272	OM R	2.7kΩ 3W J	
	R2505	QRG039J-332	OM R	3.3kΩ 3W J	
	R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J	*
	R2507	QRE141J-152Y	C R	1.5kΩ 1/4W J	*
	R2509	QRE141J-563Y	C R	56kΩ 1/4W J	*
	R2510	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R2511	QRE141J-102Y	C R	1kΩ 1/4W J	*
	R2522	QRE121J-471Y	C R	470Ω 1/2W J	*
	R2526	QRE141J-823Y	C R	82kΩ 1/4W J	*
	R2527	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R2528	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R2529	QRE141J-153Y	C R	15kΩ 1/4W J	*
	R2530	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R2531	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2532-33	QRE141J-151Y	C R	150Ω 1/4W J	*
	R2534	QRE141J-472Y	C R	4.7kΩ 1/4W J	*
⚠	R2551	QRZ9017-4R7	FUSI.RESISTOR	4.7 Ω 1/4W J	*
⚠	R2552	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J	*
⚠	R2553	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J	*
	R2554	QRE141J-182Y	C R	1.8kΩ 1/4W J	*
	R2555	QRE141J-822Y	C R	8.2kΩ 1/4W J	*
	R2557	QRE121J-272Y	C R	2.7kΩ 1/2W J	*
	R2561	QRZ0056-103Z	COMP.R	10kΩ	
	R2562-66	QRE121J-184Y	C R	180kΩ 1/2W J	*
	R2567	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R2568	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2569	QRE141J-822Y	C R	8.2kΩ 1/4W J	*
	R2570-71	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R2572	QRE141J-392Y	C R	3.9kΩ 1/4W J	*
	R2573	QRE141J-152Y	C R	1.5kΩ 1/4W J	*
	R2574	QRG029J-220	OM R	22 Ω 2W J	*
	R2575	QRE121J-123Y	C R	12kΩ 1/2W J	*
	R2581	QRF154K-4R7	UNF R		*
	R2582	QRE141J-681Y	C R	680Ω 1/4W J	*
	R2583	QRE121J-682Y	C R	6.8kΩ 1/2W J	*
	R2584	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R2585	QRE141J-222Y	C R	2.2kΩ 1/4W J	*
	R2586	QRA14CF-7501Y	MF R	7.5kΩ 1/4W F	
	R2587	QRA14CF-2101Y	MF R	2.1kΩ 1/4W F	
	R2588	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2901	QRF104K-3R9	UNF R		*
	R2902	QRE121J-331Y	C R	330Ω 1/2W J	*
	R2903-04	QRE121J-474Y	C R	470kΩ 1/2W J	*
	R2905	QRL039J-823	OM R	82kΩ 3W J	*
	R2906	QRG039J-683	OM R	68kΩ 3W J	
⚠	R2907	QRZ9017-2R2	FUSI.RESISTOR	2.2 Ω 1/4W J	*
	R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J	*
	R2909	QRT029J-R39	MF R	0.39Ω 2W J	
	R2910	QRM059J-R15	MP R	0.15Ω 5W J	*
	R2911	QRE121J-681Y	C R	680Ω 1/2W J	*
	R2912	QRE121J-332Y	C R	3.3kΩ 1/2W J	*
	R2913	QRL039J-823	OM R	82kΩ 3W J	*
	R2923	QRE121J-102Y	C R	1kΩ 1/2W J	*
	R2951	QRF074J-102	UNF R	1kΩ 7W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R2952	QRG029J-103	OM R	10kΩ 2W J	*
	R2953	QRG029J-183	OM R	18kΩ 2W J	*
	R2954	QRE141J-330Y	C R	33Ω 1/4W J	*
	R2955	QRE141J-681Y	C R	680Ω 1/4W J	*
	R2956	QRX029J-R47	MF R	0.47Ω 2W J	*
	R2957	QRG029J-100	OM R	10 Ω 2W J	*
	R2960	QRE141J-153Y	C R	15kΩ 1/4W J	*
	R2961	QRE141J-182Y	C R	1.8kΩ 1/4W J	*
	R2962	QRE141J-153Y	C R	15kΩ 1/4W J	*
	R2963	QRE141J-682Y	C R	6.8kΩ 1/4W J	*
	R2968	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2969	QRE141J-682Y	C R	6.8kΩ 1/4W J	*
	R2970	QRE141J-822Y	C R	8.2kΩ 1/4W J	*
	R2971	QRE141J-682Y	C R	6.8kΩ 1/4W J	*
	R2983	QRE141J-122Y	C R	1.2kΩ 1/4W J	*
	R2984	QRE141J-104Y	C R	100kΩ 1/4W J	*
	R2985-86	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R2987	QRE121J-680Y	C R	68Ω 1/2W J	*
⚠	R2991	QRZ0057-825	C R	8.2MΩ 1W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C2451	QCS31HJ-470Z	C CAP.	47pF 50V J	*
	C2452	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	*
	C2453	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C2455	QFLC1HJ-102Z	M CAP.	1000pF 50V J	*
	C2456-57	QFM72DJ-152Z	M CAP.	1500pF 200V J	*
	C2458	QEZ0471-226Z	E CAP.	4.7μF 50V M	
	C2461	QFLC1HJ-182Z	M CAP.	1800pF 50V J	*
	C2501	QCB32HK-331Z	C CAP.	330pF 500V K	*
	C2502	QFM72DK-103	M CAP.	0.01μF 200V K	*
	C2503	QFV71HJ-224Z	MF CAP.	0.22μF 50V J	*
⚠	C2521	QFZ0122-112	MPP CAP.	1100pF1.8kVH ±3%	
⚠	C2522	QFZ0117-1202	MPP CAP.	0.012μF1.8kVH ±3%	*
	C2523	QFM72DK-393	M CAP.	0.039μF 200V K	*
⚠	C2524	QFP32GJ-273	PP CAP.	0.027μF 400V J	*
	C2525	QFZ0194-914	MPP CAP.	0.91μF 250V J	
	C2526	QFZ0194-244	MPP CAP.	0.24μF 250V J	
	C2527	QFZ0194-154	MPP CAP.	0.15μF 250V J	
	C2529	QCB32HK-561Z	C CAP.	560pF 500V K	*
	C2530	QFZ0194-154	MPP CAP.	0.15μF 250V J	
	C2532	QETM2CM-227	E CAP.	220μF 160V M	*
	C2533	QFLC1HJ-223Z	M CAP.	0.022μF 50V J	*
	C2534	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	*
	C2535	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C2536	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	*
	C2537	QFLC2AJ-823Z	M CAP.	0.082μF 100V J	*
	C2551	QCB32HK-152Z	C CAP.	1500pF 500V K	*
	C2552	QETN1CM-108Z	E CAP.	1000μF 16V M	*
	C2553	QCB32HK-152Z	C CAP.	1500pF 500V K	*
	C2554	QETN1CM-108Z	E CAP.	1000μF 16V M	*
	C2555	QENC1HM-335Z	BP E CAP.	3.3μF 50V M	*
	C2556	QCB32HK-102Z	C CAP.	1000pF 500V K	*
	C2557	QETN2EM-106Z	E CAP.	10μF 250V M	*
	C2562	QFZ0122-682	MPP CAP.	6800pF1.8kVH ±3%	
	C2563	QFLC1HJ-563Z	M CAP.	0.056μF 50V J	*
	C2564	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C2565	QCB32HK-561Z	C CAP.	560pF 500V K	*
	C2566	QFZ0122-682	MPP CAP.	6800pF1.8kVH ±3%	
	C2567-68	QCZ0122-471	C CAP.	470pF 2000V K	*
	C2581	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C2582	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C2583	QETN2AM-106Z	E CAP.	10μF 100V M	*
	C2584	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C2585	QFZ0194-534	MPP CAP.	0.53μF 250V J	
⚠	C2901	QFZ9040-473	MM CAP.	0.047μFAC275V M	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	C2902	QCZ9054-472	C CAP.	4700pFAC250V Z	*
⚠	C2903	QCZ9054-472	C CAP.	4700pFAC250V Z	*
⚠	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z	*
	C2905	QEZ0199-227	E CAP.	220µF 400V M	*
	C2906	QCB32HK-103	C CAP.	0.01µF 500V K	*
	C2907	QCZ0122-391	C CAP.	390pF 2000V K	*
	C2908	QETN1HM-476Z	E CAP.	47µF 50V M	*
	C2909	QCB31HK-102Z	C CAP.	1000pF 50V K	*
	C2910	QCZ0122-561	C CAP.	560pF 2000V K	*
	C2912	QCB31HK-561Z	C CAP.	560pF 50V K	*
	C2921	QETN1EM-227Z	E CAP.	220µF 25V M	*
	C2922-23	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C2951	QEZ0203-227	E CAP.	220µF 160V M	*
	C2952	QEHQ1CM-228	E CAP.	2200µF 16V M	*
	C2953-54	QEHQ1CM-228	E CAP.	2200µF 16V M	
	C2955	QEHR1CM-477Z	E CAP.	470µF 16V M	
	C2956	QEHQ1VM-228	E CAP.	2200µF 35V M	*
	C2957-58	QETM1EM-338	E CAP.	3300µF 25V M	*
	C2959-60	QCB32HK-102Z	C CAP.	1000pF 500V K	*
	C2967	QEHQ1CM-228	E CAP.	2200µF 16V M	
	C2968	QCZ0120-104Z	C CAP.	0.1µF 25V Z	*
	C2970	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C2972-73	QEHR1AM-477Z	E CAP.	470µF 10V M	*
	C2974-75	QEZ0256-128	E CAP.	1200µF 10V M	
	C2976	QETN1AM-227Z	E CAP.	220µF 10V M	*
	C2977	QFV71HJ-684Z	MF CAP.	0.68µF 50V J	*
	C2978	QCZ0122-471	C CAP.	470pF 2000V K	*
⚠	C2991	QCZ9079-332	C CAP.	3300pFAC250V K	*
⚠	C2992	QCZ9079-471	C CAP.	470pFAC250V K	*

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T2501	QQR0882-001	HOR.DEF.TRANSF.		*
	T2521	QQR0706-001	PINC.TRANSF.		*
⚠	T2551	QQH0053-002-I2	FBT	(SERVICE)	
	T2561	CE41563-00B	TRANSFORMER		
⚠	T2901	CETS129-001J4	SW TRANSF.		*
⚠	T2921	QQT0147-001	POWER TRANSF.		*

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L2451	QQL43AJ-332	CHOKE COIL		
	L2452	QQLZ020-801	CHOKE COIL		
	L2521	QQLZ025-180	CHOKE COIL		
	L2522	QQR0961-002	LINEARITY COIL		*
	L2523	QQL26AJ-153Z	PEAKING COIL		
	L2524	QQL01BK-560Z	COIL	56µH	*
	L2551	QQLZ018-320	HEATER CHOKE		*
	L2561	QQL43AJ-222	COIL	2200µH	
	L2901-02	QQL401K-100Z	CHOKE COIL		*
	L2951	QQLZ018-460	HEATER CHOKE		*
	L2952-54	QQL26AK-220Z	COIL	22µH	*
	L2955	QQR0518-001	CHOKE COIL		
	L2956	QQLZ018-460	HEATER CHOKE		*
	L2957	QQL26AK-220Z	COIL	22µH	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D2454	BYD33D-T3	SI.DIODE		*
	D2501	1SS81-T5	SI.DIODE		*
	D2502	1SS133-T2	SI.DIODE		*
	D2503	MTZJ15B-T2	ZENER DIODE		*
	D2521	V11CA-C1	SI.DIODE		
	D2522	FMV-3FU-F1	SI.DIODE		
	D2524	1SS133-T2	SI.DIODE		*
	D2551-52	BYW95B-20	SI.DIODE		*
	D2553	BYD33G-T3	SI.DIODE		*
	D2554	MTZJ4.7A-T2	ZENER DIODE		*
	D2555-56	BYD33G-T3	SI.DIODE		*
	D2561-62	ES1F-LFG2	SI.DIODE		
	D2581	MTZJ15B-T2	ZENER DIODE		*
	D2582	MTZJ7.5B-T2	ZENER DIODE		*
	D2583	MTZJ7.5S-T2	ZENER DIODE		*
	D2584	BYD33G-T3	SI.DIODE		*
⚠	D2901	D3SB60	BRIDGE DIODE		*
	D2902	BYD33M-T3	SI.DIODE		*
⚠	D2903	BYD33D-T3	SI.DIODE		*
	D2904	BYD33D-T3	SI.DIODE		*
	D2905	1SS133-T2	SI.DIODE		*
	D2907	MTZJ15B-T2	ZENER DIODE		*
	D2921-24	1N4003-T2	SI.DIODE		*
	D2925	MTZJ10B-T2	ZENER DIODE		*
	D2951-52	RU4B-F1	SI.DIODE		*
	D2953	FMX-G12S	SI.DIODE		
	D2954	BYW95B-20	SI.DIODE		*
	D2955	SF6L20U	SI.DIODE		
	D2956-57	FMX-G12S	SI.DIODE		
	D2958	BYD33M-T3	SI.DIODE		*
	D2959	RK44-LFT4	SI.DIODE		
	D2960	MTZJ33B-T2	ZENER DIODE		*
	D2961-62	1SS133-T2	SI.DIODE		*
	D2964-66	1SS133-T2	SI.DIODE		*
	D2981-82	1SS133-T2	SI.DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q2452	2SK2459N-F54	F.E.T.		
	Q2501	BSN274	F.E.T.		*
	Q2502	2SC1815/YG/-T	SI.TRANSISTOR		*
⚠	Q2521	2SC5552-LT	SI.TRANSISTOR	H.OUT	
	Q2524	2SC3311A/QR/-T	SI.TRANSISTOR		*
	Q2525	2SA1309A/QR/-T	SI.TRANSISTOR		*
	Q2526	IRF9630	F.E.T.		
	Q2561-62	2SC1815/YG/-T	SI.TRANSISTOR		*
	Q2563	2SC4686A	POW TRANSISTOR		
	Q2581	2SA949/Y/Z1-T	SI.TRANSISTOR		*
	Q2582	DTC144ESA-T	DIGI.TRANSISTOR		*
	Q2583	2SC1815/YG/-T	SI.TRANSISTOR		*
	Q2921	2SC2655/Y/-T	SI.TRANSISTOR		*
	Q2981-82	2SC1815/YG/-T	SI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC2451	BA10393	IC		
	IC2521	BA10393	IC		
	IC2901	STR-F6668B	I C		
	IC2951	SE140N	I.C.(HYBRID)		
	IC2952	BA12T	I.C.(MONO-ANA)		*
	IC2953	SI-8050S	I.C.(HYBRID)		
	IC2954	BA033T	I.C.(MONO-ANA)		
	IC2955	UPC2409AHF	I.C.(MONO-ANA)		
	IC2956	BA08T	I C		*

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	CP2953	ICP-N75-Y	I.C.PROTECT		*
⚠	CP2954	QMFZ034-4R0Z-J1	FUSE	4A	*
⚠	CP2955	QMFZ034-4R0Z-J1	FUSE	4A	*
	K2521	CE41832-001	LEAD CORE		*
	K2523-25	CE41832-001	LEAD CORE		*
	K2901-02	CE42050-001Z	CORE		*
	K2951	QQR0679-001	FERRITE BEADS		
	K2952	CE41433-001Z	BEADS CORE		*
	K2953	CE41832-001	LEAD CORE		*
⚠	PC2901	TLP721F(D4-GR)	I.C.(PH.COUPLER)		*

⚠	Symbol No.	Part No.	Part Name	Description	Local

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	RY2981	QSK0086-001	RELAY		
⚠	TH2901	CEKP002-003	W.P.THERMISTOR		*

CRT SOCKET PW BOARD ASS'Y (SMD-3001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R3101	QRE141J-272Y	C R	2.7kΩ 1/4W J	*
	R3102	QRE141J-153Y	C R	15kΩ 1/4W J	*
	R3103	QRE141J-152Y	C R	1.5kΩ 1/4W J	*
	R3104	QRE141J-680Y	C R	68Ω 1/4W J	*
	R3105	QRE141J-221Y	C R	220Ω 1/4W J	*
⚠	R3106	QRJ146J-100X	C R	10Ω 1/4W J	*
	R3107-08	QRE141J-470Y	C R	47Ω 1/4W J	*
⚠	R3109	QRZ9021-561	FUSI.RESISTOR	560 Ω 1W J	*
	R3110	QRE141J-122Y	C R	1.2kΩ 1/4W J	*
	R3111	QRE141J-390Y	C R	39Ω 1/4W J	*
	R3112	QRE141J-2R7Y	C R	2.7Ω 1/4W J	*
	R3113-14	QRE141J-563Y	C R	56kΩ 1/4W J	*
	R3115	QRE141J-122Y	C R	1.2kΩ 1/4W J	*
	R3116	QRE141J-2R7Y	C R	2.7Ω 1/4W J	*
	R3117	QRE141J-390Y	C R	39Ω 1/4W J	*
	R3118	QRE141J-121Y	C R	120Ω 1/4W J	*
	R3119	QRL029J-391	OM R	390Ω 2W J	*
	R3130	QRE141J-101Y	C R	100Ω 1/4W J	*
	R3204-06	QRE141J-152Y	C R	1.5kΩ 1/4W J	*
	R3207	QRE141J-562Y	C R	5.6kΩ 1/4W J	*
	R3208	QRE141J-123Y	C R	12kΩ 1/4W J	*
	R3211	QRE141J-334Y	C R	330kΩ 1/4W J	*
	R3223-25	QRE141J-182Y	C R	1.8kΩ 1/4W J	*
	R3227	QRE141J-272Y	C R	2.7kΩ 1/4W J	*
	R3228	QRE141J-822Y	C R	8.2kΩ 1/4W J	*
	R3229-31	QRG01GJ-823	OM R	82kΩ 1W J	*
	R3232-34	QRE141J-332Y	C R	3.3kΩ 1/4W J	*
	R3235-37	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K	*
	R3239	QRZ0107-474Z	C R	0.47µF 1/2W K	*
	R3240	QRZ0107-102Z	C R	15 Ω 1/2W K	*
	R3241	QRZ0107-105Z	C R	15 Ω 1/2W K	
	R3301-02	QRE121J-474Y	C R	470kΩ 1/2W J	*
	R3303-04	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R3305	QRE141J-562Y	C R	5.6kΩ 1/4W J	*
	R3306	QRE141J-392Y	C R	3.9kΩ 1/4W J	*
	R3307	QRE141J-101Y	C R	100Ω 1/4W J	*
	R3308	QRE141J-471Y	C R	470Ω 1/4W J	*
	R3309	QRE141J-120Y	C R	12Ω 1/4W J	*
	R3310	QRE141J-331Y	C R	330Ω 1/4W J	*
	R3311-12	QRE141J-472Y	C R	4.7kΩ 1/4W J	*
	R3313	QRE141J-102Y	C R	1kΩ 1/4W J	*
	C3101	QETN1HM-106Z	E CAP.	10µF 50V M	*
	C3103	QETN1HM-335Z	E CAP.	3.3µF 50V M	*
	C3104	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C3105	QCS31HJ-101Z	C CAP.	100pF 50V J	*
	C3106	QCS31HJ-181Z	C CAP.	180pF 50V J	*
	C3107	QETN2CM-106Z	E CAP.	10µF 160V M	*
	C3108-09	QCB32HK-472Z	C CAP.	4700pF 500V K	*
	C3110	QETN2CM-106Z	E CAP.	10µF 160V M	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C3111-12	QETN1AM-107Z	E CAP.	100µF 10V M	*
	C3113	QETN1AM-337Z	E CAP.	330µF 10V M	*
	C3114	QCS32HJ-470Z	C CAP.	47pF 500V J	*
	C3115	QCS31HJ-5R0Z	C CAP.	5.0pF 50V J	*
	C3118	QENC1HM-106Z	BP E CAP.	10µF 50V M	*
	C3201-03	QCS31HJ-8R0Z	C CAP.	8.0pF 50V J	*
	C3204	QCZ0120-104Z	C CAP.	1 Ω 25V Z	*
	C3205	QCZ0120-104Z	C CAP.	1 Ω 25V Z	*
	C3206	QCZ0120-104Z	C CAP.	1 Ω 25V Z	*
	C3207-09	QETN1EM-476Z	E CAP.	47µF 25V M	*
	C3210-12	QFK62EK-104Z	MM CAP.	0.1µF 250V K	*
	C3213-15	QCS31HJ-181Z	C CAP.	180pF 50V J	*
	C3216	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C3218	QETM2EM-336	E CAP.	33µF 250V M	*
	C3219	QFZ0097-223	MM CAP.	0.022µF 1250V K	*
	C3221	QETN2EM-106Z	E CAP.	10µF 250V M	*
	C3301	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C3302	QFLC1HJ-103Z	M CAP.	0.01µF 50V J	

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L3201-03	QQL01BK-4R7Z	COIL	4.7µH	*
	L3301	QQL26AJ-102Z	COIL	1000µH	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D3101-02	RH1S-T3	SI.DIODE		*
	D3151	1SS133-T2	SI.DIODE		*
	D3204-06	EU01N-T2	SI.DIODE		
	D3208-10	1SR124-400A-T2	SI.DIODE		*
	D3301	1SS252-T2	SI.DIODE		*
	D3302-03	1SS133-T2	SI.DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q3102-03	2SC3311A/QR/-T	SI.TRANSISTOR		*
	Q3104	2SA1309A/QR/-T	SI.TRANSISTOR		*
	Q3105	2SA1837	SI.TRANSISTOR		*
	Q3106	2SC4793	SI.TRANSISTOR		*
	Q3301	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q3302	2SC2655/Y/-T	SI.TRANSISTOR		*
	Q3303	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q3304-05	2SC3311A/QR/-T	SI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC3201-03	TDA6111Q	I.C.(MONO-ANA)		*

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
	K3101-04	CE41492-001Z	CHOKE COIL		*
	K3105	CE41433-001Z	BEADS CORE		*
	SG3201-03	CE42447-501	ARRESTOR		
⚠	SK3001	CE42670-001	C.R.T.SOCKET		

AUDIO PW BOARD ASS'Y (SMD-6001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R6101	QRN143J-2R2X	C R	2.2Ω 1/4W J	*
	R6102	QRE141J-562Y	C R	5.6kΩ 1/4W J	*
	R6103	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R6104	QRE141J-681Y	C R	680Ω 1/4W J	*
	R6105-06	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R6107	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R6108	QRN143J-2R2X	C R	2.2Ω 1/4W J	*
	R6109	QRE141J-562Y	C R	5.6kΩ 1/4W J	*
	R6110	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R6111	QRE141J-681Y	C R	680Ω 1/4W J	*
	R6112-13	QRE141J-223Y	C R	22kΩ 1/4W J	*
	R6114	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R6115	QRN143J-103X	C R	10kΩ 1/4W J	*
	R6116	QRE141J-273Y	C R	27kΩ 1/4W J	*
	R6118-19	QRE141J-104Y	C R	100kΩ 1/4W J	*
	R6122-23	QRE141J-104Y	C R	100kΩ 1/4W J	*
	R6124	QRE141J-472Y	C R	4.7kΩ 1/4W J	*
	R6125-26	QRE141J-223Y	C R	22kΩ 1/4W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C6101	QFV71HJ-684Z	MF CAP.	0.68μF 50V J	*
	C6102-03	QETM1EM-228	E CAP.	2200μF 25V M	*
	C6104	QETN1HM-476Z	E CAP.	47μF 50V M	*
	C6105	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C6106	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C6108	QFV71HJ-684Z	MF CAP.	0.68μF 50V J	*
	C6109-10	QFV71HJ-104Z	MF CAP.	0.1μF 50V J	*
	C6111	QETN1HM-476Z	E CAP.	47μF 50V M	*
	C6112	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C6113	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C6115-16	QFV71HJ-684Z	MF CAP.	0.68μF 50V J	*
	C6123-24	QEZ0206-335Z	BP E CAP.	33μF 50V M	*
	C6125-26	QCS31HJ-181Z	C CAP.	180pF 50V J	*
	C6127	QFLC1HJ-103Z	M CAP.	0.01μF 50V J	*

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D6101-04	MTZJ27B-T2	ZENER DIODE		*
	D6105	MTZJ5.1B-T2	ZENER DIODE		*
	D6107	1SS133-T2	SI.DIODE		*
	D6108	MA700A-T2	SI.DIODE		*
	D6110-11	1SS133-T2	SI.DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q6101	DTC144ESA-T	DIGI.TRANSISTOR		*
	Q6102	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q6104	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q6105	DTC144ESA-T	DIGI.TRANSISTOR		*
	Q6106-07	DTC323TS-T	DIGI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC6101-02	TDA2052V	I.C.(MONO-ANA)		*

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
	K6001-02	CE41433-001Z	BEADS CORE		*

FRONT CONTROL PW BOARD ASS'Y (SMD-8001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R8001-02	QRE121J-151Y	C R	150Ω 1/2W J	*
	R8003	QRE141J-222Y	C R	2.2kΩ 1/4W J	*
	R8004	QRE141J-472Y	C R	4.7kΩ 1/4W J	*
	R8005	QRE141J-561Y	C R	560Ω 1/4W J	*
	R8007	QRE141J-103Y	C R	10kΩ 1/4W J	*
	R8008	QRE141J-682Y	C R	6.8kΩ 1/4W J	*
	R8009	QRE141J-105Y	C R	1MΩ 1/4W J	*
	R8010	QRE141J-183Y	C R	18kΩ 1/4W J	*
	R8011	QRE141J-123Y	C R	12kΩ 1/4W J	*
	R8012	QRE141J-273Y	C R	27kΩ 1/4W J	*
	R8013	QRE141J-332Y	C R	3.3kΩ 1/4W J	*
	R8014	QRE141J-123Y	C R	12kΩ 1/4W J	*
	R8020	QRE141J-562Y	C R	5.6kΩ 1/4W J	*
	R8035	QRE141J-391Y	C R	390Ω 1/4W J	*
	R8036-38	QRE141J-561Y	C R	560Ω 1/4W J	*
	R8039	QRE141J-821Y	C R	820Ω 1/4W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8001-02	QCB31HK-103Z	C CAP.	0.01μF 50V K	*
	C8003	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C8004	QCZ0120-104Z	C CAP.	0.1μF 25V Z	*
	C8005	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K	*
	C8019	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C8021	QCZ0120-104Z	C CAP.	0.1μF 25V Z	*
	C8022	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C8023	QCZ0120-104Z	C CAP.	0.1μF 25V Z	*
⚠	C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M	*

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L8001	QQR0716-001Z	LEAD CORE		
	L8002-03	QQL211K-5R6Y	COIL	5.6μH	*
	L8010-11	QQL211K-270Y	COIL	27μH	*
	L8012	QQR0716-001Z	LEAD CORE		

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D8007	P1241-04	C.D.S.		
	D8008	1SS133-T2	SI.DIODE		*
	D8009	SLR-342MG-T16	L.E.D.(GRN)		*
	D8010	SPR-39MVWF	L.E.D.		*
	D8011	1SS133-T2	SI.DIODE		*
	D8012	SLR-342DU-T16	L.E.D.(ORG)		*
	D8013	SLR-342YY-T16	L.E.D.(YLW)		*
	D8014	MTZJ6.8A-T2	ZENER DIODE		*
	D8018	MTZJ5.1B-T2	ZENER DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q8001	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q8002	DTC144ESA-T	DIGI.TRANSISTOR		*
	Q8003-04	DTA144ESA-T	DIGI.TRANSISTOR		*
	Q8005-07	DTC144ESA-T	DIGI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC8001	GP1U281Q	IFR DETECT UNIT		*

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
		CEMG002-001Z	FUSE CLIP		*
		LC30596-001A-U	LED HOLDER		*
		CM35921-005-H	CDS HOLDER		*
	CN8002	CHC108N-25T-AE	FFC CONNECTOR		*
⚠	F8901	QMF51D2-3R15J1	FUSE	3.15A	*
	J8001	QMS3007-C01	JACK		*
	J8003	QND0073-001	S JACK		*
	J8004	CEMN011-001	JACK		*
	J8005	CEMN011-002	JACK		*
	J8006	CEMN011-003	JACK		*
⚠	LF8901	CELF012-001J7	LINE FILTER		*
⚠	LF8902	CELF012-001J7	LINE FILTER		*
	S8001	QSW0619-003Z	PUSH SWITCH	MENU	
	S8002	QSW0619-003Z	PUSH SWITCH	CH DOWN	
	S8003	QSW0619-003Z	PUSH SWITCH	CH UP	
⚠	S8901	QSW0750-001	PUSH SWITCH	MAIN POWER	*

DOLBY PW BOARD ASS'Y (SMD0D001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R0101	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0102	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0103	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0104	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0105	NRSA02J-105X	MG R	1MΩ 1/10W J	*
	R0106-09	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0111	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0112	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0113	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0115	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0201	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0203	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0204	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R0205	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0207	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0208	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R0209	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0211	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0212	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0214-15	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0216	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0217	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0219	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0221	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0222	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0223	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0225	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0227	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0228	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0229	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0231	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0232-33	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0301	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0401	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0402-03	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0404	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0431	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0432-33	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0434	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0451	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0452	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0453	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0454	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0455	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R0456-57	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0458	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0459	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0460	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0461	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0462	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0463	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0464	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0465	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0466	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0467	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R0468-69	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0470	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0471	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0472	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0473	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0474	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0475	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0476	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0477	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0478	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0479	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0480	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0481-82	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0483	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R0484	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0485-86	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0491	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0492	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0501	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0502	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0503	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0504	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0505	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0506	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0507	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0508	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0509	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0510-11	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R0512-13	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0514	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0516	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0517	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0518	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0519	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0101	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C0103	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0104	NEH71HM-475X	E CAP.	4.7μF 50V M	
	C0105	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C0106-08	NEH71CM-476X	E CAP.	47μF 16V M	
	C0109	NEH71HM-475X	E CAP.	4.7μF 50V M	
	C0110	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0111-12	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C0114-15	NEH71CM-476X	E CAP.	47μF 16V M	

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0116	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0117-19	NEH71CM-476X	E CAP.	47µF 16V M	
	C0120	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0121-22	NEH71CM-476X	E CAP.	47µF 16V M	
	C0123	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0124-27	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0128	NEH71CM-476X	E CAP.	47µF 16V M	
	C0129-33	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0134	NEHE1CM-227X	E CAP.	2200µF 16V M	
	C0135	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0137	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0138	NEH71CM-476X	E CAP.	47µF 16V M	
	C0139	NEHE1CM-227X	E CAP.	220µF 16V M	
	C0142	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0144-45	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0146	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0147	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C0148-49	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C0150	NEH71CM-106X	E CAP.	10µF 16V M	
	C0201-02	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0203	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0204-05	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0208	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0209	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C0212	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C0213	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0214	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0217	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0218	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C0219	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0220	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C0223-25	NEH71CM-476X	E CAP.	47µF 16V M	
	C0226-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0301	NEH71CM-476X	E CAP.	47µF 16V M	
	C0401	NEH71EM-226X	E CAP.	22µF 25V M	
	C0402	NEH71CM-476X	E CAP.	47µF 16V M	
	C0403-04	NCB21HK-272X	C CAP.	2700pF 50V K	*
	C0405-06	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0407-10	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0431	NEH71EM-226X	E CAP.	22µF 25V M	
	C0432	NEHE1CM-227X	E CAP.	220µF 16V M	
	C0433-34	NCB21HK-272X	C CAP.	2700pF 50V K	*
	C0435	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0436-39	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0440	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0451	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0452	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C0453	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0454	NCB21EK-563X	C CAP.	0.056µF 25V K	
	C0456	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0457	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0458	NCB21EK-563X	C CAP.	0.056µF 25V K	
	C0459	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0460	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0461	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C0462	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0465-67	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0468	NEH71CM-476X	E CAP.	47µF 16V M	
	C0471-72	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0473	NCB21HK-821X	C CAP.	820pF 50V K	*
	C0474	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C0475	NEH71CM-476X	E CAP.	47µF 16V M	
	C0476	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0479-80	NDC21HJ-820X	C CAP.	82pF 50V J	*
	C0501-02	NCF21CZ-105X	C CAP.	1µF 16V Z	*
	C0503-04	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C0505	NEH71CM-476X	E CAP.	47µF 16V M	
	C0506-07	NEH71HM-106X	E CAP.	10µF 50V M	

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0508	NEH71CM-476X	E CAP.	47µF 16V M	
	C0701-02	NCB21HK-222X	C CAP.	2200pF 50V K	*

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L0102-05	NQL02BJ-4R7X	COIL	4.7µH	*
	L0701-02	NQL02BJ-100X	COIL	10µH	*

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D0201-02	MA3062/M/-X	ZENER DIODE		*
	D0451	MA111-X	SI.DIODE		*
	D0452	MA3062/M/-X	ZENER DIODE		*
	D0453	MA111-X	SI.DIODE		*
	D0454	MA3062/M/-X	ZENER DIODE		*
	D0501-02	MA3150/M/-X	ZENER DIODE		*
	D0503	MA3062/M/-X	ZENER DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q0301	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0451-52	DTC323TK-X	DIGI.TRANSISTOR		*
	Q0453	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0501	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0502-03	DTC323TK-X	DIGI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC0101	TC9471F	I.C.(DIGI-MOS)		
	IC0102	MN1382/Q/-X	I.C.(MONO-ANA)		*
	IC0201-03	BA4558F-X	I.C.(MONO-ANA)		*
	IC0301	TC4052BF/N/-XE	I.C.(DIGI-MOS)		
	IC0401	TDA7315D	I.C.(DIGI-OTHER)		*
	IC0431	TDA7315D	I.C.(DIGI-OTHER)		*
	IC0451-53	BA4558F-X	I.C.(MONO-ANA)		*
	IC0501	BA4558F-X	I.C.(MONO-ANA)		*

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
	J0001	QNN0294-001	PIN JACK		
	J0002	QNB0006-002	PUSH TERMINAL		*
	K0101-05	CE42681-001Y	BEADS CORE		*
	LC0101-02	CE42482-103Y	EMI FILTER		*
	X0101	NAX0288-001X	CRYSTAL		

IF PW BOARD ASS'Y (SMD0F001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R0020	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0021	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0022	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0023	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0024	NRSA02J-330X	MG R	33Ω 1/10W J	*
	R0025	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0026	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0027-28	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0030-31	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0050-51	NRSA02J-121X	MG R	120Ω 1/10W J	*
	R0052-53	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0058	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0059	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0060-61	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0062	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0063	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0064	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0065	NRSA02J-470X	MG R	47Ω 1/10W J	*
	R0070-71	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0080-81	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0082	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0101	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0102	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0103	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0104	NRSA02J-121X	MG R	120Ω 1/10W J	*
	R0105	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0106	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0107	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R0108	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0109	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0113	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0116	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0117	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0120-24	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R0143	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R0144	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0601	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0602	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0603	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0604	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0605-06	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R0607-08	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
⚠	R0609	QRZ9017-470	FUSI.RESISTOR	47 Ω 1/4W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0020-25	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0030	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0040	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C0041	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C0042	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0043	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C0044	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0045	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0046	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0047	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C0050	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0051	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0053	NDC21HJ-6R0X	C CAP.	6.0pF 50V J	*
	C0054	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0055	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C0056	QETN1HM-474Z	E CAP.	0.47μF 50V M	*
	C0057	NDC21HJ-102X	C CAP.	1000pF 50V J	*
	C0058	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0060	NDC21HJ-120X	C CAP.	12pF 50V J	*
	C0061	NDC21HJ-7R0X	C CAP.	7.0pF 50V J	*
	C0062	QETN1HM-474Z	E CAP.	0.47μF 50V M	*
	C0063	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0064	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0065	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0067	NDC21HJ-120X	C CAP.	12pF 50V J	*
	C0069-70	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0071	QETN1HM-336Z	E CAP.	33μF 50V	*
	C0080-81	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0101	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C0102	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0103-04	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0105	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C0140	QETN1HM-335Z	E CAP.	3.3μF 50V M	*
	C0141	NDC21HJ-561X	C CAP.	560pF 50V J	*
	C0142	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0143	QFLC1HJ-683Z	M CAP.	0.068μF 50V J	*
	C0144	QETN1HM-335Z	E CAP.	3.3μF 50V M	*
	C0145	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C0601	QFLC1HJ-183Z	M CAP.	0.018μF 50V J	*
	C0602	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C0603	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C0604	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C0605	QETN1CM-477Z	E CAP.	470μF 16V M	*
	C0606	NCB21HK-103X	C CAP.	0.01μF 50V K	*

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T0020	QQR0626-001	I.F.TRANSF.		*
	T0050	CELT001-307	C.WAVE TRANSF.		*
	T0051	CELT001-306	C.WAVE TRANSF		*

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L0020	QQLZ014-R47	PEAKING COIL		*
	L0021	NQL011K-1R5X	COIL	1.5μH	*
	L0040	NQL024J-120X	COIL	12μH	
	L0042	NQL024J-330X	COIL	33μH	
	L0050-53	NQL011K-8R2X	COIL	8.2μH	*
	L0054	NQL024J-330X	COIL	33μH	
	L0070	NQL011K-5R6X	COIL	5.6μH	*
	L0101	NQL011K-6R8X	COIL	6.8μH	*
	L0102-03	NQL011K-100X	COIL	10μH	*
	L0104	NQL011K-8R2X	COIL	8.2μH	*

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D0020-21	DAN235K-X	CHIP DIODE		
	D0050-51	DAN235K-X	CHIP DIODE		

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q0012	2SC5083/L-P/-T	SI.TRANSISTOR		*
	Q0080	2SC2712/YG/-X	SI.TRANSISTOR		*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	TRANSISTOR				
	Q0101	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0102	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0103	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0106	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0107	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0108	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0109-11	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0120-26	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0601-02	2SC2712/YG/-X	SI.TRANSISTOR		*
	IC				
	IC0010	TA8865BN	I.C.(MONO-ANA)		*
	OTHERS				
	CF0010-11	FTP40.40MF	CERAMIC FILTER		*
	CF0100	TPS5.5MW	CERAMIC FILTER		*
	CF0140	CSB503F30-T2	CER.RESONATOR		*
	SF0010	QAX0531-001	SAW FILTER		*
	SF0011	CE42574-702	SAW FILTER		
	SF0012	QAX0574-001	SAW FILTER		*
	TC0052	QAT7004-100	TRIM. CAP.	10pF 100V	*
	TC0059	QAT7004-100	TRIM.CAP.	10pF 100V	*
	W0008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0013	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0015	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0025-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0028-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0031-32	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0036	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0073-75	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0094-99	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y0002	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

AV TERMINAL PW BOARD ASS'Y (SMD0J001A-U2)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R0104	QRE141J-750Y	C R	75Ω 1/4W J	*
	R0106	QRE141J-750Y	C R	75Ω 1/4W J	*
	R0108	QRE141J-750Y	C R	75Ω 1/4W J	*
	R0112	QRE141J-750Y	C R	75Ω 1/4W J	*
	R0204	QRE141J-750Y	C R	75Ω 1/4W J	*
	R0304	QRE141J-750Y	C R	75Ω 1/4W J	*
	CAPACITOR				
	C0102-04	QEKC1CM-106Z	E CAP.	10µF 16V M	
	C0105-08	QCB31HK-472Z	C CAP.	4700pF 50V K	*
	C0109	QETN1AM-108Z	E CAP.	1000µF 10V M	*
	C0202	QCB31HK-103Z	C CAP.	0.01µF 50V K	*
	C0203-06	QCB31HK-472Z	C CAP.	4700pF 50V K	*
	C0209	QETN1AM-108Z	E CAP.	1000µF 10V M	*
	C0302	QCB31HK-103Z	C CAP.	0.01µF 50V K	*
	C0305-06	QCB31HK-472Z	C CAP.	4700pF 50V K	*
	COIL				
	L0101-04	QQL211K-5R6Y	COIL	5.6µH	*
	L0105	QQR0716-001Z	LEAD CORE		
	L0201-04	QQL211K-5R6Y	COIL	5.6µH	*
	L0205	QQR0716-001Z	LEAD CORE		
	L0301-02	QQL211K-5R6Y	COIL	5.6µH	*
	L0303	QQR0716-001Z	LEAD CORE		
	DIODE				
	D0101-04	MTZJ13B-T2	ZENER DIODE		*
	OTHERS				
	CN0008	CHA401N-35R-J	HQF CONNECTOR		*
	J0001-03	CE40529-006	SCART CONNECTOR		

P&P PW BOARD ASS'Y (SMD0P001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description		Local
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W	J	*
	R0003-06	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0100	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	*
	R0101	NRSA02J-122X	MG R	1.2kΩ 1/10W	J	*
	R0102	NRSA02J-331X	MG R	330Ω 1/10W	J	*
	R0103	NRSA02J-680X	MG R	68Ω 1/10W	J	*
	R0104	NRSA02J-330X	MG R	33Ω 1/10W	J	*
	R0105-08	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0109	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0110-11	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0112	NRSA02J-122X	MG R	1.2kΩ 1/10W	J	*
	R0113	NRSA02J-332X	MG R	3.3kΩ 1/10W	J	*
	R0114	NRSA02J-474X	MG R	470kΩ 1/10W	J	*
	R0115	NRSA02J-750X	MG R	75Ω 1/10W	J	*
	R0116	NRSA02J-101X	MG R	100Ω 1/10W	J	*
	R0117	NRSA02J-391X	MG R	390Ω 1/10W	J	*
	R0118	NRSA02J-474X	MG R	470kΩ 1/10W	J	*
	R0119	NRSA02J-471X	MG R	470Ω 1/10W	J	*
	R0120	NRSA02J-562X	MG R	5.6kΩ 1/10W	J	*
	R0121	NRSA02J-822X	MG R	8.2kΩ 1/10W	J	*
	R0122	NRSA02J-121X	MG R	120Ω 1/10W	J	*
	R0123	NRSA02J-470X	MG R	47Ω 1/10W	J	*
	R0124	NRSA02J-121X	MG R	120Ω 1/10W	J	*
	R0125	NRSA02J-561X	MG R	560Ω 1/10W	J	*
	R0126-27	NRSA02J-150X	MG R.	15Ω 1/10W	J	*
	R0128	NRSA02J-332X	MG R	3.3kΩ 1/10W	J	*
	R0130	NRSA02J-561X	MG R	560Ω 1/10W	J	*
	R0131-32	NRSA02J-393X	MG R	39kΩ 1/10W	J	*
	R0133	NRSA02J-272X	MG R	2.7kΩ 1/10W	J	*
	R0134	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0135	NRSA02J-273X	MG R	27kΩ 1/10W	J	*
	R0136	NRSA02J-682X	MG R	6.8kΩ 1/10W	J	*
	R0138-39	NRSA02J-473X	MG R	47kΩ 1/10W	J	*
	R0140	NRSA02J-272X	MG R	2.7kΩ 1/10W	J	*
	R0141	NRSA02J-104X	MG R	100kΩ 1/10W	J	*
	R0142-43	NRSA02J-471X	MG R	470Ω 1/10W	J	*
	R0144	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W	J	*
	R0146	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0160	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0161	NRSA02J-121X	MG R	120Ω 1/10W	J	*
	R0162	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0163	NRSA02J-151X	MG R	150Ω 1/10W	J	*
	R0164	NRSA02J-221X	MG R	220Ω 1/10W	J	*
	R0165	NRSA02J-181X	MG R	180Ω 1/10W	J	*
	R0166	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0167	NRSA02J-181X	MG R	180Ω 1/10W	J	*
	R0169	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0170	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0172	NRSA02J-471X	MG R	470Ω 1/10W	J	*
	R0173	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	*
	R0174-76	NRSA02J-561X	MG R	560Ω 1/10W	J	*
	R0178	NRSA02J-152X	MG R	1.5kΩ 1/10W	J	*
	R0181	NRSA02J-561X	MG R	560Ω 1/10W	J	*
	R0182	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0183	NRSA02J-332X	MG R	3.3kΩ 1/10W	J	*
	R0185	NRSA02J-561X	MG R	560Ω 1/10W	J	*
	R0301	NRSA02J-153X	MG R	15kΩ 1/10W	J	*
	R0302	NRSA02J-823X	MG R	82kΩ 1/10W	J	*
	R0303-04	NRSA02J-101X	MG R	100Ω 1/10W	J	*
	R0305-07	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0601	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0602	NRSA02J-822X	MG R	8.2kΩ 1/10W	J	*
⚠	R0603	QRZ9017-470	FUSI.RESISTOR	47 Ω 1/4W	J	*
	R0604	NRSA02J-104X	MG R	100kΩ 1/10W	J	*
	R0605	NRSA02J-683X	MG R	68kΩ 1/10W	J	*
	R0606	NRSA02J-272X	MG R	2.7kΩ 1/10W	J	*
	R0607	NRSA02J-392X	MG R	3.9kΩ 1/10W	J	*
	R0608	NRSA02J-822X	MG R	8.2kΩ 1/10W	J	*
	R0609	NRSA02J-562X	MG R	5.6kΩ 1/10W	J	*
	R0801-02	NRSA02J-820X	MG R	82Ω 1/10W	J	*
	R0803	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0804-09	NRSA02J-101X	MG R	100Ω 1/10W	J	*
	R0810-11	NRSA02J-393X	MG R	39kΩ 1/10W	J	*
	R0814-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0820-23	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0824	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0825	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0826	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0827	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0828	NRSA02J-331X	MG R	330Ω 1/10W	J	*
	R0829	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0830	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0831	NRSA02J-150X	MG R	15Ω 1/10W	J	*
	R0832	NRSA02J-151X	MG R	150Ω 1/10W	J	*
	R0833	NRSA02J-182X	MG R	1.8kΩ 1/10W	J	*
	R0834	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0835	NRSA02J-150X	MG R	15Ω 1/10W	J	*
	R0836	NRSA02J-151X	MG R	150Ω 1/10W	J	*
	R0837	NRSA02J-332X	MG R	3.3kΩ 1/10W	J	*
	R0838	NRSA02J-0R0X	MG R	0.0Ω 1/10W	J	*
	R0839	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0840	NRSA02J-822X	MG R	8.2kΩ 1/10W	J	*
	R0841	NRSA02J-103X	MG R	10kΩ 1/10W	J	*
	R0842	NRSA02J-562X	MG R	5.6kΩ 1/10W	J	*
	R0843	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	*
	R0844	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0845-48	NRSA02J-221X	MG R	220Ω 1/10W	J	*
	R0849	NRSA02J-222X	MG R	2.2kΩ 1/10W	J	*
	R0850	NRSA02J-101X	MG R	100Ω 1/10W	J	*
	R0851	NRSA02J-153X	MG R	15kΩ 1/10W	J	*
	R0852	NRSA02J-472X	MG R	4.7kΩ 1/10W	J	*
	R0853-54	NRSA02J-102X	MG R	1kΩ 1/10W	J	*
	R0855	NRSA02J-223X	MG R	22kΩ 1/10W	J	*
	R0856-58	NRSA02J-473X	MG R	47kΩ 1/10W	J	*
	R0859-62	NRSA02J-562X	MG R	5.6kΩ 1/10W	J	*
	R0867-68	NRSA02J-101X	MG R	100Ω 1/10W	J	*
	R0869-71	NRSA02J-820X	MG R	82Ω 1/10W	J	*
	R0872-74	NRSA02J-821X	MG R	820Ω 1/10W	J	*
	R0875-99	NRSA02J-820X	MG R	82Ω 1/10W	J	*
	R0900-04	NRSA02J-820X	MG R	82Ω 1/10W	J	*

CAPACITOR

Symbol No.	Part No.	Part Name	Description			Local
C0001	NCB21HK-222X	C CAP.	2200pF	50V	K	*
C0002	NEH71CM-106X	E CAP.	10μF	16V	M	
C0003	NEHE1CM-227X	E CAP.	220μF	16V	M	
C0004-05	NCF21EZ-104X	C CAP.	0.1μF	25V	Z	*
C0006	QETM1HM-107	E CAP.	100μF	50V	M	*
C0007	NEHE1EM-107X	E CAP.	100μF	25V	M	
C0008	NCF21EZ-104X	C CAP.	0.1μF	25V	Z	*
C0009	NCB21HK-102X	C CAP.	1000pF	50V	K	*
C0100	NEHE1CM-227X	E CAP.	220μF	16V	M	
C0102-07	NCB21HK-472X	C CAP.	4700pF	50V	K	*
C0110	NCB21HK-222X	C CAP.	2200pF	50V	K	*
C0111	NEH71HM-335X	E CAP.	3.3μF	50V	M	
C0112	QFLB1HJ-683	M CAP.	0.068μF	50V	J	*
C0113	NEH71HM-105X	E CAP.	1μF	50V	M	*
C0114	NDC21HJ-561X	C CAP.	560pF	50V	J	*
C0115	NEH71HM-335X	E CAP.	3.3μF	50V	M	
C0116	NEHE1EM-107X	E CAP.	100μF	25V	M	
C0117	NCB21HK-103X	C CAP.	0.01μF	50V	K	*

CAPACITOR

△	Symbol No.	Part No.	Part Name	Description	Local
	C0118	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C0119	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0120	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0121	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0123	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0124	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0126	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0127	NDC21HJ-7R0X	C CAP.	7.0pF 50V J	*
	C0128	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C0129	QETM1CM-107	E CAP.	100µF 16V M	*
	C0130	NDC21HJ-102X	C CAP.	1000pF 50V J	*
	C0131	NEH71HM-474X	E CAP.	0.47µF 50V M	
	C0132	NDC21HJ-6R0X	C CAP.	6.0pF 50V J	*
	C0133	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0134	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0135	NEH71EM-336X	E CAP.	33µF 25V M	
	C0136	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0137	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0138	NEH71HM-474X	E CAP.	0.47µF 50V M	
	C0140	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0141	NDC21HJ-120X	C CAP.	12pF 50V J	*
	C0142	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0143-44	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0145	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0148	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0149	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0152	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0154-55	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0160	NEH71CM-476X	E CAP.	47µF 16V M	
	C0161	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0162	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0163	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0164-67	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0304	NCB21HK-332X	C CAP.	3300pF 50V K	*
	C0305	NCF21EZ-474X	C CAP.	0.47µF 25V Z	*
	C0306	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0307	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0308	NCB21HK-332X	C CAP.	3300pF 50V K	*
	C0309	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0310-11	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C0312-16	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0317	QETM1AM-477	E CAP.	470µF 10V M	*
	C0318-20	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0321-23	NEH71CM-476X	E CAP.	47µF 16V M	
	C0601	NCB21HK-183X	C CAP.	0.018µF 50V K	*
	C0602	QETM1CM-477	E CAP.	470µF 16V M	*
	C0603	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0604	NEH71CM-476X	E CAP.	47µF 16V M	
	C0605	NEH71CM-106X	E CAP.	10µF 16V M	
	C0606	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0607	NCB21HK-223X	C CAP.	0.022µF 50V K	*
	C0800	NEH71CM-106X	E CAP.	10µF 16V M	
	C0801	NEH71CM-476X	E CAP.	47µF 16V M	
	C0802-03	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0804	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0805-08	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0809	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0813-14	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0817	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0818	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0822-26	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0829-36	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0837-38	NEH71CM-476X	E CAP.	47µF 16V M	
	C0844	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0845	NEH71CM-476X	E CAP.	47µF 16V M	
	C0846	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0850	NEH71CM-106X	E CAP.	10µF 16V M	
	C0851-52	NCB21EK-104X	C CAP.	0.1µF 25V K	*
	C0853	NEH71CM-106X	E CAP.	10µF 16V M	
	C0854-55	NCB21EK-104X	C CAP.	0.1µF 25V K	*
	C0856	NEH71CM-476X	E CAP.	47µF 16V M	
	C0857	NEH71EM-475X	E CAP.	4.7µF 25V M	
	C0858	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0859	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0860	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0861	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0862-64	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0865	NEH71CM-106X	E CAP.	10µF 16V M	
	C0866-71	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0872	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0873	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0874	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0875	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0876	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0877	NEH71CM-106X	E CAP.	10µF 16V M	

TRANSFORMER

△	Symbol No.	Part No.	Part Name	Description	Local
	T0001	QQR0626-001	I.F.TRANSF.		*
	T0101	CELT001-306	C.WAVE TRANSF.		*
	T0102	CELT040-301	S.I.F.TRANSF.		*
	T0103	CELT001-307	C.WAVE TRANSF.		*

COIL

△	Symbol No.	Part No.	Part Name	Description	Local
	L0001	NQL02BJ-330X	COIL	33µH	*
	L0002-05	NQL024J-100X	COIL	10µH	
	L0100	QQLZ014-R47	PEAKING COIL	0.47µH	*
	L0102	NQL011K-1R5X	COIL	1.5µH	*
	L0103	NQL024J-120X	COIL	12µH	
	L0104-06	NQL011K-8R2X	COIL	8.2µH	*
	L0108	NQL011K-8R2X	COIL	8.2µH	*
	L0109	NQL011K-5R6X	COIL	5.6µH	*
	L0151-52	NQL011K-100X	COIL	10µH	*
	L0160	NQL011K-100X	COIL	10µH	*
	L0165	NQL011K-4R7X	COIL	4.7µH	*
	L0801	NQL02BJ-4R7X	COIL	4.7µH	*
	L0803	NQL011K-4R7X	COIL	4.7µH	*
	L0804	NQL02BJ-4R7X	COIL	4.7µH	*
	L0805-06	NQL011K-4R7X	COIL	4.7µH	*

DIODE

△	Symbol No.	Part No.	Part Name	Description	Local
	D0100-03	DAN235K-X	CHIP DIODE		

TRANSISTOR

△	Symbol No.	Part No.	Part Name	Description	Local
	Q0100	2SC5083/L-P/-T	SI.TRANSISTOR		*
	Q0101-04	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0105	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0106-07	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0108	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0109	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0110	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0111-12	DTC323TK-X	DIGI.TRANSISTOR		*
	Q0160	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0161	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0162	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0163	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0164	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0166	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0167	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0169	2SC2712/YG/-X	SI.TRANSISTOR		*

Δ	Symbol No.	Part No.	Part Name	Description	Local
	TRANSISTOR				
	Q0170	DTC144EKA-X	DIGI.TRANSISTOR		*
	Q0171	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0600-01	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0801-04	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0805	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0806-07	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0808-09	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0810	2SA1162/YG/-X	SI.TRANSISTOR		*
	IC				
	IC0101	TA8865BN	I.C.(MONO-ANA)		*
	IC0102	LA7975	I.C.(MONO-ANA)		
	IC0301	TDA9143/N2/S1	I.C.(MONO-ANA)		
	IC0302	TDA4665	I.C.(MONO-ANA)		*
	IC0303	LA7016	I.C.(MONO-ANA)		*
	IC0801	SAB9079	I C		*
	IC0802	MSM5416283-60-X	4M VD-RAM		
	IC0803	AN5860	I.C.(MONO-ANA)		*
	IC0804	TC4066BF/N/-XE	I C		
	IC0805	CXA1875AM-X	I.C.(MONO-ANA)		
	OTHERS				
		LC30835-001A-U	SHIELD COVER		*
	CF0101	CSB503F30-T2	CER.RESONATOR		*
	CF0102-03	FTP40.40MF	CERAMIC FILTER		*
	CF0160	TPS5.5MW	CERAMIC FILTER		*
	CF0162	QAX0336-001	CERAMIC FILTER		
	CF0164-65	QAX0337-001	CERAMIC FILTER		
	CF0166	CSB503E5	CER.RESONATOR		*
	CF0168	QAX0338-001	CERAMIC FILTER		
	K0001-02	CE41433-001Z	BEADS CORE		*
	SF0100	QAX0531-001	SAW FILTER		*
	SF0101	CE42574-702	SAW FILTER		
	SF0102	QAX0574-001	SAW FILTER		*
	TC0122	QAT7004-100	TRIM. CAP.	10p F 100V	*
	TC0139	QAT7004-100	TRIM. CAP.	10p F 100V	*
	TU0001	CEEK481-A03	TUNER		*
	UD0001	CEGA016-001	RF SPLITTER		
	W0001	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	X0301	CE40749-001J1	CRYSTAL		*
	X0302	CE40668-001	CRYSTAL		*
	Y0107	NRSA02J-224X	MG R	220kΩ 1/10W J	*
	Y0108-09	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W001A-U2)

Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R0001	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0003	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0004	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0005-07	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0008	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0009	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0010	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0011	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0012	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0020-26	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0045	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0051	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0054	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0060	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R0751	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0752-57	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0758	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0759-60	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0761-66	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	CAPACITOR				
	C0001	NEN51AM-336X	CHIP AL BP E CAP	33μF 10V M	
	C0002	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0003	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0004-05	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C0006	NEH71CM-476X	E CAP.	47μF 16V M	
	C0009	NEH71CM-106X	E CAP.	10μF 16V M	
	C0010-11	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C0751	NEH71CM-476X	E CAP.	47μF 16V M	
	C0752-57	NCB21HK-104X	CHIP CAP	0.1μF 50V K	*
	DIODE				
	D0005	MA3051/M/-X	ZENER DIODE		*
	D0751	MA111-X	SI.DIODE		*
	D0752-53	MA3062/M/-X	ZENER DIODE		*
	TRANSISTOR				
	Q0001-02	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q0003	2SA1037K/QR/-X	SI.TRANSISTOR		
	Q0004-05	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q0751-52	2SC2712/YG/-X	SI.TRANSISTOR		*
	IC				
	IC0001	JCC5035	I C		
	IC0002	MN1382/Q/-X	I.C.(MONO-ANA)		*
	IC0751	SAB-C161RI	I C		*
	IC0752	MX23C4000PC10MD	IC		
	IC0753	AT24C16N-10SC	I C		*
	OTHERS				
		CEMS007-032	IC SOCKET		
	X0001	CE42564-001Y	CER.RESONATOR		
	X0751	QAX0534-001	C RESONATOR		

100Hz PW BOARD ASS'Y (SMD0Z001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R0001-02	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0004	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0005	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0101	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0102	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0103	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0104	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0105	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0106	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0107	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0108	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0109-10	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0111	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0112	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0113	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0114	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R0121	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0122	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0123	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0124	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0125	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0126	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0127	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0128	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0129	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0130	NRSA02J-330X	MG R	33Ω 1/10W J	*
	R0131	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0132	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0133	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0134	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0142	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0143	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0144	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0145	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0146	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0147	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0148	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0149	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0150	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0151	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0152	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0153	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0154	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R0155	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R0156	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0157	NRSA02J-560X	MG R	56Ω 1/10W J	*
	R0158	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0159	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0160	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R0161	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0162	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0163	NRSA02J-181X	MG R	180Ω 1/10W J	*
	R0164	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0165	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0171	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0172	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0173	NRSA02J-182X	MG R	1.8kΩ 1/10W J	*
	R0174	NRSA02J-560X	MG R	56Ω 1/10W J	*
	R0175	NRSA02J-105X	MG R	1MΩ 1/10W J	*
	R0176	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R0177	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0178	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0179	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0180	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0181-82	NRSA02F-392X	MG R	3.9kΩ 1/10W F	
	R0183-84	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0185	NRSA02F-392X	MG R	3.9kΩ 1/10W F	
	R0186	NRSA02F-332X	MG R	3.3kΩ 1/10W F	
	R0187	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0188	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R0189	NRSA02J-470X	MG R	47Ω 1/10W J	*
	R0190	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0191	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0192	NRSA02J-220X	MG R	22Ω 1/10W J	*
	R0193	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0201-16	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0221-36	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0303-18	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0401	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0403	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0404	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0406	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0408	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0409	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0411	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0412	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0413	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0415	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0417	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0418	NRSA02J-220X	MG R	22Ω 1/10W J	*
	R0419	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0420	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0423	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0425	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0426	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0428	NRSA02F-472X	MG R	4.7kΩ 1/10W F	
	R0429	NRSA02F-333X	MG R	33kΩ 1/10W F	
	R0431	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0432	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0433	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0435	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0437	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0438	NRSA02J-220X	MG R	22Ω 1/10W J	*
	R0439	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0440	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0441	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0442	NRSA02F-472X	MG R	4.7kΩ 1/10W F	
	R0443	NRSA02F-333X	MG R	33kΩ 1/10W F	
	R0451	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0452	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0453	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0455	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0457	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0458	NRSA02J-220X	MG R	22Ω 1/10W J	*
	R0459	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0460	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0461	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0462	NRSA02F-472X	MG R	4.7kΩ 1/10W F	
	R0463	NRSA02F-333X	MG R	33kΩ 1/10W F	
	R0471	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0472	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R0473	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0475	NRSA02J-330X	MG R	33Ω 1/10W J	*
	R0476	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0477	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0478	NRSA02J-220X	MG R	22Ω 1/10W J	*
	R0479	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0480	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0486	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0487	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0488	NRSA02J-223X	MG R	22kΩ 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R0489	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0491-92	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0501	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R0504	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0505	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0506	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0507	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0512	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0514-15	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R0516	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0602-03	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0604	QRN143J-221X	C R	220Ω 1/4W J	*
	R0606	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0607-08	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0609	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R0610	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0611	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J	*
	R0614	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R0615	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0616	NRSA02J-223X	MG R	22kΩ 1/10W J	
	R0704	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0705-06	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0708-09	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0714	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0715-16	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R0717	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0718	NRSA02J-154X	MG R	150kΩ 1/10W J	*
	R0719	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0720-21	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0723	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R0724	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0726	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R0727	NRSA02J-224X	MG R	220kΩ 1/10W J	*
	R0731	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0733	NRSA02J-154X	MG R	150kΩ 1/10W J	*
	R0734	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0736	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R0737	NRSA02J-224X	MG R	220kΩ 1/10W J	*
	R0738	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0739-40	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R0741	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0742	NRSA02J-224X	MG R	220kΩ 1/10W J	*
	R0743	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0744	NRSA02J-224X	MG R	220kΩ 1/10W J	*
	R0745	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R0746	NRSA02J-224X	MG R	220kΩ 1/10W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0001	NEH71CM-476X	E CAP.	47µF 16V M	
	C0002	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0003	NEH71CM-476X	E CAP.	47µF 16V M	
	C0004	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0005	NEH71CM-476X	E CAP.	47µF 16V M	
	C0006	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0007	NEH71CM-476X	E CAP.	47µF 16V M	
	C0008	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0009	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0011	NDC21HJ-270X	C CAP.	27pF 50V J	*
	C0102	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0103	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0104	NEN51EM-106X	CHIP AL BP E CAP	10µF 25V M	
	C0105	NCF21HZ-224X	C CAP.	0.22µF 50V Z	*
	C0106	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0107	NDC21HJ-390X	C CAP.	39pF 50V J	*
	C0108	NEH71CM-476X	E CAP.	47µF 16V M	
	C0109	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0110	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0111	NDC21HJ-181X	C CAP.	180pF 50V J	*
	C0112-14	NEH71CM-106X	E CAP.	10µF 16V M	
	C0122	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0123	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0124	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0125	NCF21HZ-224X	C CAP.	0.22µF 50V Z	*
	C0126	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0142	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C0143	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0144	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0145	NCF21HZ-224X	C CAP.	0.22µF 50V Z	*
	C0146	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0151	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0152	QETN0JM-228Z	E CAP.	2200µF 6.3V M	*
	C0153	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0154-55	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0156-57	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0161-62	NEH71CM-106X	E CAP.	10µF 16V M	
	C0163	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0164	NEH71CM-106X	E CAP.	10µF 16V M	
	C0165-80	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0181-82	NDC21HJ-8R0X	C CAP.	8.0pF 50V J	*
	C0191	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0192	NEH71CM-106X	E CAP.	10µF 16V M	
	C0193	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0201-02	QETN0JM-477Z	E CAP.	470µF 6.3V M	*
	C0203-07	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0208-09	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C0301-19	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0401	NEH71CM-106X	E CAP.	10µF 16V M	
	C0402	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0403	NEH71CM-106X	E CAP.	10µF 16V M	
	C0404	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0405-06	NDC21HJ-120X	C CAP.	12pF 50V J	*
	C0408-13	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0414	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0415	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0416	NEH71CM-106X	E CAP.	10µF 16V M	
	C0417	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0418	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0420	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0422	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0424	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0425	NEH71CM-476X	E CAP.	47µF 16V M	
	C0426	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0432	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0434	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0435	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0452	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0454	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0455	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0472	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0474	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0475-76	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0477	NDC21HJ-561X	C CAP.	560pF 50V J	*
	C0501	NCB21HK-333X	C CAP.	0.033µF 50V K	*
	C0504	NCB21HK-562X	C CAP.	5600pF 50V K	*
	C0505-06	NCB21HK-393X	C CAP.	0.039µF 50V K	*
	C0507	NDC21HJ-101X	C CAP.	100pF 50V J	*
	C0601	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0602	NEH71CM-476X	E CAP.	47µF 16V M	
	C0603	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0605	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0606	NDC21HJ-681X	C CAP.	680pF 50V J	*
	C0701	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C0706	NCB21EK-154X	C CAP.	0.15µF 25V K	

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0707	NCB21EK-104X	C CAP.	0.1µF 25V K	*
	C0708	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0709	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0710	NEH71CM-106X	E CAP.	10µF 16V M	
	C0711	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0712	NEH71CM-106X	E CAP.	10µF 16V M	
	C0713	NCB21HK-473X	C CAP.	0.047µF 50V K	*

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L0001-05	NQL02BJ-4R7X	COIL	4.7µH	*
	L0101	NQL011K-3R3X	COIL	3.3µH	*
	L0121	NQL011K-3R3X	COIL	3.3µH	*
	L0141	NQL011K-3R3X	COIL	3.3µH	*
	L0161	NQL02BJ-100X	COIL	10µH	*
	L0162	NQL02BJ-3R3X	COIL	3.3µH	*
	L0163-64	NQL02BJ-100X	COIL	10µH	*
	L0201-02	NQL02BJ-100X	COIL	10µH	*
	L0301-02	NQL02BJ-4R7X	COIL	4.7µH	*

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D0001	MA152WK-X	SI.DIODE		*
	D0101-02	MA3068/M/-X	ZENER DIODE		*
	D0103	MA3043-X	ZENER DIODE		*
	D0104-05	MA111-X	SI.DIODE		*
	D0106	MA3068/M/-X	ZENER DIODE		*
	D0107	MA111-X	SI.DIODE		*
	D0401	MA111-X	SI.DIODE		*
	D0403-10	MA3068/M/-X	ZENER DIODE		*
	D0411-13	MA111-X	SI.DIODE		*
	D0414	MA3068/M/-X	ZENER DIODE		*
	D0701	MA111-X	SI.DIODE		*

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q0101	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0102	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0103	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0105	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0106-07	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0108	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0111	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0121	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0122	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0123	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0124	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0141	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0142	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0143	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0144	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0151-52	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0153	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0154	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0155	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0402	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0403-05	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0411	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0412-15	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0431	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0432-35	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0451	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0452-55	2SC2712/YG/-X	SI.TRANSISTOR		*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q0471	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0472-74	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0501	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0601	2SC2712/YG/-X	SI.TRANSISTOR		
	Q0702	2SC2712/YG/-X	SI.TRANSISTOR		*

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC0101	SDA9206	I C		*
	IC0102	TC4W66F-X	I.C.(DIGI-MOS)		
	IC0201	SDA9400	I C		*
	IC0301	JCC5043	I C		
	IC0401	DDP3310B/D3-W	I C		*
	IC0601	SN74LV04ANS-X	I C		
	IC0602	TC74AC00F-X	I.C.(DIGI-MOS)		
	IC0603	MN1382/Q/-X	I.C.(MONO-ANA)		*
	IC0701-02	NJM4556AM-XE	I C		

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
	LC0001-04	CE42482-103Y	EMI FILTER		*
	LC0101-03	CE42482-470Y	EMI FILTER		*
	LC0104	CE42126-101Y	EMI FILTER		
	LC0201	CE42482-103Y	EMI FILTER		*
	LC0401-11	CE42126-220Y	EMI FILTER		
	LC0601	CE42126-101Y	EMI FILTER		
	LC0602	CE42482-470Y	EMI FILTER		*
	LC0603	CE42126-101Y	EMI FILTER		
	X0101	QAX0549-001Z	X TAL		*
	X0201	QAX0359-001Z	CRYSTAL		*
	X0401	QAX0548-001Z	X TAL		*
	Y0001-14	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y0017-28	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

AV-32WFP1EK

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1901A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1204	QRK126J-151X	C R	150Ω 1/2W J	
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1206	QRG01GJ-101	OM R	100Ω 1W J	*
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1228	NRSA02J-560X	MG R	56Ω 1/10W J	*
	R1229	QRK126J-181X	C R	180Ω 1/2W J	*
	R1231	QRG01GJ-101	OM R	100Ω 1W J	*
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1292	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R1301	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1303	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1307	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1309	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R1313	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1316	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1319	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1321	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1331	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1348	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R1351	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1372	NRSA02J-274X	MG R	270kΩ 1/10W J	*
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1382	NRSA02J-182X	MG R	1.8kΩ 1/10W J	*
	R1383	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J	*
	R1405	QRL029J-221	OM R	220Ω 2W J	
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J	*
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J	*
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	R1571	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1572	NRSA02J-124X	MG R	120kΩ 1/10W J	*
	R1573	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1574	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1575	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1576	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1577	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1578	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1579	NRSA02J-154X	MG R	150kΩ 1/10W J	*
	R1580	NRSA02J-100X	MG R	10Ω 1/10W J	*
	R1581	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	R1582	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1583	QRK126J-681X	C R	680Ω 1/2W J	
	R1584	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1585	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1611	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J	*
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1617-18	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1619	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1620	NRSA02J-223X	MG R	22kΩ 1/10W J	
	R1658-60	QRN143J-2R2X	C R	2.2Ω 1/4W J	*
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R1662-64	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1667	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1672	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R1673	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1674	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1675	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1676	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1677	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1678	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1679	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1680	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1689-90	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1691-92	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1693-94	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1700	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1701	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1702	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1703-06	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1707	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	R1737	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J	*
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R1740-42	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1748	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J	*
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R1782	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1784-86	NRSA02J-333X	MG R	33kΩ 1/10W J	*
	R1787	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1788	NRSA02J-123X	MG R	12kΩ 1/10W J	*
	R1789	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R1795	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1796	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R1897	QRG029J-220	OM R	22 Ω 2W J	*
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1001	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1002	QETN1HM-107Z	E CAP.	100μF 50V M	*
	C1003	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1004	QETN1CM-107Z	E CAP.	100μF 16V M	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C1008	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1101-02	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1104	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1105	QENC1HM-474Z	BP E CAP.	0.47μF 50V M	*
	C1106	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1107	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C1121-22	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1123	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1124-25	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1128	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1129	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1130	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1131	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1132	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1134	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J	*
	C1136-39	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1140	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1141	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1151	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C1152	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1153	QETN1AM-107Z	E CAP.	100μF 10V M	*
	C1154	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1155	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1161	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1163	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J	*
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1192	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1193	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1201	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1203-04	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1205-06	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1207	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1212-13	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1214-15	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1216-17	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1218-19	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1220	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1221-22	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1223-24	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1231-33	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1301	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1302	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1303	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1304	QENC1CM-476Z	BP E CAP.	47μF 16V M	*
	C1305	QETN1HM-226Z	E CAP.	22μF 50V M	*
	C1306	NCB21HK-223X	C CAP.	0.022μF 50V K	*
	C1307-08	QENC1HM-105Z	BP E CAP.	1μF 50V M	*
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J	*
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C1315	NCB21CK-474X	C CAP.	0.47μF 16V K	*
	C1316	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1317	NCB21EK-154X	C CAP.	0.15μF 25V K	
	C1318	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K	*
	C1320	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C1323	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*

CAPACITOR

Δ	Symbol No.	Part No.	Part Name	Description	Local
	C1327	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1341	QENC1HM-105Z	BP E CAP.	1μF 50V M	*
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J	*
	C1363-65	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1381-84	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1387-88	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1389-90	QETN0JM-228Z	E CAP.	2200μF 6.3V M	*
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1403	QFLC2AJ-104Z	M CAP.	0.1μF 100V J	*
	C1404	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J	*
	C1406	QETM1VM-108	E CAP.	1000μF 35V M	*
	C1408	QETN1VM-337Z	E CAP.	330μF 35V M	*
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47μF 50V J	*
	C1412	QFLC2AJ-104Z	M CAP.	0.1μF 100V J	*
	C1417-18	QETN1CM-108Z	E CAP.	1000μF 16V M	*
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C1461	QETN1HM-226Z	E CAP.	22μF 50V M	*
	C1551-52	NCB21CK-224X	C CAP.	0.22μF 16V K	
	C1553	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C1554-55	NCB21CK-224X	C CAP.	0.22μF 16V K	
	C1571-72	NCB21CK-474X	C CAP.	0.47μF 16V K	*
	C1573	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1575-76	NCB21CK-474X	C CAP.	0.47μF 16V K	*
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J	*
	C1603-04	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1605-06	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1607-08	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C1609-12	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1615	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C1616-18	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1619	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C1620	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J	*
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1629	NCB21HK-103X	C CAP.	0.01μF 50V K	*
	C1630	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C1631	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1632	NCF21EZ-104X	C CAP.	0.1μF 25V Z	*
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J	*
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J	*
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J	*
	C1651-53	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1654	QETN1HM-107Z	E CAP.	100μF 50V M	*
	C1655	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1656-57	NCF21HZ-224X	C CAP.	0.22μF 50V Z	*
	C1658	QETM1HM-228	E CAP.	2200μF 50V M	*
	C1659-62	NCF21HZ-224X	C CAP.	0.22μF 50V Z	*
	C1663-65	QETM1VM-108	E CAP.	1000μF 35V M	*
	C1667	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1668-69	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1670	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1671	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1672	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C1673	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1674	NDC21HJ-100X	C CAP.	10pF 50V J	*
	C1675	QETN1HM-105Z	E CAP.	1μF 50V M	*
	C1679	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1680-81	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C1682	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C1703	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1704	QETN1AM-107Z	E CAP.	100μF 10V M	*
	C1705-06	NDC21HJ-2R0X	C CAP.	2.0pF 50V J	*
	C1707	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1708	NCB21HK-333X	C CAP.	0.033μF 50V K	*
	C1709	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1710	QETN1EM-476Z	E CAP.	47μF 25V M	*
	C1711	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1712	NCB21HK-333X	C CAP.	0.033μF 50V K	*
	C1713	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1714	QETN1HM-474Z	E CAP.	0.47μF 50V M	*
	C1715	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1717	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J	*
	C1719	NCF21CZ-105X	C CAP.	1μF 16V Z	*
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J	*
	C1758	QETN1AM-227Z	E CAP.	220μF 10V M	*
	C1759	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C1762	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1763	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1764	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1769-71	QETN1HM-106Z	E CAP.	10μF 50V M	*
	C1772	QETN1CM-476Z	E CAP.	47μF 16V M	*
	C1773	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J	*
	C1780	NCB21HK-104X	CHIP CAP.	0.1μF 50V K	*
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J	*
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J	*
	C1784	QETN1CM-227Z	E CAP.	220μF 16V M	*
	C1901	QETN1CM-107Z	E CAP.	100μF 16V M	*
	C1902	QETN1HM-106Z	E CAP.	10μF 50V M	*

TRANSFORMER

Δ	Symbol No.	Part No.	Part Name	Description	Local
	T1101	CE42697-001	LOWPASS FILTER		
	T1111	CE42697-001	LOWPASS FILTER		
	T1121	CE42697-001	LOWPASS FILTER		

COIL

Δ	Symbol No.	Part No.	Part Name	Description	Local
	L1001-02	QQL01BK-8R2Z	COIL	8.2μH K	*
	L1004	QQL01BK-5R6Z	COIL	5.6μH K	*
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1102-05	QQL03BJ-220Z	COIL	22μH J	*
	L1111	QQL03BJ-220Z	COIL	22μH J	*
	L1121	QQL03BJ-330Z	COIL	33μH J	*
	L1302	NQL024J-5R6X	COIL	5.6μH	
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1604	QQL01BJ-180Z	COIL	18μH J	*
	L1605	QQL01BJ-220Z	COIL	22μH J	*
	L1701	QQL01BK-4R7Z	COIL	4.7μH K	*
	L1702	QQL01BK-5R6Z	COIL	5.6μH K	*
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	L1753	QQL01BK-4R7Z	COIL	4.7μH K	*

DIODE

Δ	Symbol No.	Part No.	Part Name	Description	Local
	D1201-11	MA3130/H/-X	ZENER DIODE		*
	D1214-15	MA3130/H/-X	ZENER DIODE		*
	D1402	BYD33D-T3	SI.DIODE		*
	D1403-04	MA3330/L/-X	ZENER DIODE		

DIODE

Δ	Symbol No.	Part No.	Part Name	Description	Local
	D1461	MA111-X	SI.DIODE		*
	D1462	MA3220/M/-X	ZENER DIODE		*
	D1502	MA111-X	SI.DIODE		*
	D1504	MA111-X	SI.DIODE		*
	D1653-55	MA3330/L/-X	ZENER DIODE		
	D1658	MA153A-X	SI.DIODE		
	D1660	MA111-X	SI.DIODE		*
	D1661	MA153A-X	SI.DIODE		
	D1664-65	MA111-X	SI.DIODE		*
	D1666	MA3062/M/-X	ZENER DIODE		*
	D1667-68	MA3150/M/-X	ZENER DIODE		*
	D1701-02	MA111-X	SI.DIODE		*
	D1704	1SS244-T2	SI.DIODE		
	D1708	MA111-X	SI.DIODE		*
	D1709	MA3068/M/-X	ZENER DIODE		*
	D1710	MA111-X	SI.DIODE		*
	D1712	MA111-X	SI.DIODE		*
	D1751-53	MA111-X	SI.DIODE		*
	D1754	MA3062/M/-X	ZENER DIODE		*
	D1771-74	MA3056/M/-X	ZENER DIODE		*
	D1901	MA3130/H/-X	ZENER DIODE		*

TRANSISTOR

Δ	Symbol No.	Part No.	Part Name	Description	Local
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR		*
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR		*
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR		*
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR		*
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR		*
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1301	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1571	2SA966/OY/-T	SI.TRANSISTOR		*
	Q1572	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1654-56	DTC323TK-X	DIGI.TRANSISTOR		*
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1658-60	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1753	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR		*

IC

Δ	Symbol No.	Part No.	Part Name	Description	Local
	IC1101	TC9090AN	I.C.(DIGI-MOS)		
	IC1301	CXA1545AS	I.C.(MONO-ANA)		*
	IC1302	LA7222	I.C.(MONO-ANA)		
	IC1303	TDA9143/N3	I.C.(MONO-ANA)		*
	IC1304	TDA4665	I.C.(MONO-ANA)		*
	IC1305	LA7016	I.C.(MONO-ANA)		*
	IC1401	LA7841	I.C.(MONO-ANA)		
	IC1551	LA6515	I.C.(MONO-ANA)		
	IC1571	LA6515	I.C.(MONO-ANA)		
	IC1601	MSP3410D-PP-B4	I.C.(DIGI-OTHER)		*
	IC1651	TA8256BH	I.C.(HYBRID)		
	IC1652	BA4558F-X	I.C.(MONO-ANA)		*
	IC1701	M37280MK-101SP	I C		
	IC1702	L78LR05E-MA	I.C.(MONO-ANA)		*
	IC1703	AT24C1632WFP1	I.C.	(SERVICE)	
	IC1754	SDA5275S	I.C.(MICRO-PROC)		*
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)		
	IC1756	TC4053BP/N/	I.C.(DIGI-MOS)		

OTHERS

Δ	Symbol No.	Part No.	Part Name	Description	Local
		CEMS009-064	I.C.SOCKET		
	CN1002	CHC108N-25T-AE	FFC CONNECTOR		*
	CN1008	CHA401B-35P-J	HQF PLUG		*
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J	*
	K1101	CE41433-001Z	BEADS CORE		*
	K1401	CE41433-001Z	BEADS CORE		*
	K1701	CE41433-001Z	BEADS CORE		*
	LC1101	CE42142-222Z	EMI FILTER		
	LC1601	CE42142-103Z	EMI FILTER		*
	TU1001	QAU0132-001	TUNER		*
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	X1311	CE40749-001Z	CRYSTAL		*
	X1312	CE40668-001Z	CRYSTAL		*
	X1601	CE42546-001Z	CRYSTAL		*
	X1701	CST8.00MTW	CER.RESONATOR		*
	X1752	QAX0351-001Z	CRYSTAL		*
	Y1306	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1314	NRSA02J-682X	MG R	6.8kΩ 1/10W J	*
	Y1315-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1324-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1651-52	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1654	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y1750-51	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

POWER / DEF PW BOARD ASS'Y (SMD-2001A-U2)

Refer to PARTS LIST in page 51 for this P.W. board.

CRT SOCKET PW BOARD ASS'Y (SMD-3001A-U2)

Refer to PARTS LIST in page 53 for this P.W. board.

AUDIO PW BOARD ASS'Y (SMD-6001A-U2)

Refer to PARTS LIST in page 54 for this P.W. board.

FRONT CONTROL PW BOARD ASS'Y (SMD-8001A-U2)

Refer to PARTS LIST in page 54 for this P.W. board.

DOLBY PW BOARD ASS'Y (SMD0D001A-U2)

Refer to PARTS LIST in page 55 for this P.W. board.

IF PW BOARD ASS'Y (SMD0F902A-U2)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R0020	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0021	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0022	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0023	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0024	NRSA02J-330X	MG R	33Ω 1/10W J	*
	R0030-31	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0058-59	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0063	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0064	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0065	NRSA02J-470X	MG R	47Ω 1/10W J	*
	R0070-71	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0080-81	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0082	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0101	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0102	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0108	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0109	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0113	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0116	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R0143	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R0144	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	CAPACITOR				
	C0020-23	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0030	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0040	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C0041	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C0042	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0043	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C0044	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0045-46	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0047	QETN1CM-227Z	E CAP.	220µF 16V M	*
	C0048	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0050	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C0054	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0055	QETN1CM-107Z	E CAP.	100µF 16V M	*
	C0056	QETN1HM-474Z	E CAP.	0.47µF 50V M	*
	C0057	NDC21HJ-102X	C CAP.	1000pF 50V J	*
	C0058	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0060	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0062	QETN1HM-474Z	E CAP.	0.47µF 50V M	*
	C0063	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0064	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0065	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C0069-70	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0071	QETN1HM-336Z	E CAP.	33µF 50V	*
	C0080-81	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0101	QETN1CM-476Z	E CAP.	47µF 16V M	*
	C0104	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0105	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0140	QETN1HM-335Z	E CAP.	3.3µF 50V M	*
	C0141	NDC21HJ-561X	C CAP.	560pF 50V J	*
	C0142	QETN1HM-105Z	E CAP.	1µF 50V M	*
	C0143	QFLC1HJ-683Z	M CAP.	0.068µF 50V J	*
	C0144	QETN1HM-335Z	E CAP.	3.3µF 50V M	*
	C0145	NCB21HK-222X	C CAP.	2200pF 50V K	*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	TRANSFORMER				
	T0020	QQR0626-001	I.F.TRANSF.		*
	T0050	CELT001-307	C.WAVE TRANSF.		*
	COIL				
	L0020	QQLZ014-R47	PEAKING COIL	0.47μH	*
	L0021	NQL011K-1R5X	COIL	1.5μH	*
	L0030	NQL011K-2R2X	COIL	2.2μH	*
	L0040	NQL024J-120X	COIL	12μH	
	L0042	NQL024J-330X	COIL	33μH	
	L0054	NQL024J-330X	COIL	33μH	
	L0070	NQL011K-5R6X	COIL	5.6μH	*
	L0103	NQL011K-8R2X	COIL	8.2μH	*
	L0104	NQL011K-5R6X	COIL	5.6μH	*
	TRANSISTOR				
	Q0012	2SC5083/L-P/-T	SI.TRANSISTOR		*
	Q0080	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0101	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0107	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR		*
	IC				
	IC0010	TA8865BN	I.C.(MONO-ANA)		*
	OTHERS				
	CF0010-11	FTP41.50MF	CERAMIC FILTER		*
	CF0100	TPSH6.0MB	CERAMIC FILTER		*
	CF0140	CSB503F30-T2	CER.RESONATOR		*
	SF0010	QAX0315-001	SAW FILTER		*
	SF0012	QAX0352-002	SAW FILTER		
	W0008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0013	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0015	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0025-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0028-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0031-32	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0036	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0073-75	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	W0094-99	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y0002-04	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

AV TERMINAL PW BOARD ASS'Y (SMD0J001A-U2)

Refer to PARTS LIST in page 58 for this P.W. board.

P & P PW BOARD ASS'Y (SMD0P901A-U2)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0003-06	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0100	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0101	NRSA02J-122X	MG R	1.2kΩ 1/10W J	*
	R0102	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0103	NRSA02J-680X	MG R	68Ω 1/10W J	*
	R0104	NRSA02J-330X	MG R	33Ω 1/10W J	*
	R0113	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0114	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0115	NRSA02J-750X	MG R	75Ω 1/10W J	*
	R0116	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0117	NRSA02J-391X	MG R	390Ω 1/10W J	*
	R0118	NRSA02J-474X	MG R	470kΩ 1/10W J	*
	R0119	NRSA02J-471X	MG R	470Ω 1/10W J	*
	R0120	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0121	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0123	NRSA02J-470X	MG R	47Ω 1/10W J	*
	R0126-27	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0131-32	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0133	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0134	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0135	NRSA02J-273X	MG R	27kΩ 1/10W J	*
	R0138-39	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0140	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0141	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0144	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0146	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0166	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0167-68	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0169	NRSA02J-271X	MG R	270Ω 1/10W J	*
	R0170	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0171	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0172	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0174	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0176	NRSA02J-561X	MG R	560Ω 1/10W J	*
	R0178	NRSA02J-152X	MG R	1.5kΩ 1/10W J	*
	R0301	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0302	NRSA02J-823X	MG R	82kΩ 1/10W J	*
	R0303-04	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0305-07	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0601	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0602	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
⚠	R0603	QRZ9017-470	FUSI.RESISTOR	47 Ω 1/4W J	*
	R0604	NRSA02J-104X	MG R	100kΩ 1/10W J	*
	R0605	NRSA02J-683X	MG R	68kΩ 1/10W J	*
	R0606	NRSA02J-272X	MG R	2.7kΩ 1/10W J	*
	R0607	NRSA02J-392X	MG R	3.9kΩ 1/10W J	*
	R0608-09	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0801-02	NRSA02J-820X	MG R	82Ω 1/10W J	*
	R0803	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0804-09	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0810-11	NRSA02J-393X	MG R	39kΩ 1/10W J	*
	R0814-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0820	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0822	NRSA02J-103X	MG R	10kΩ 1/10W J	*

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R0824	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0825	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0826	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0827	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0828	NRSA02J-331X	MG R	330Ω 1/10W J	*
	R0829	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0830	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0831	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0832	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0833	NRSA02J-182X	MG R	1.8kΩ 1/10W J	*
	R0834	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0835	NRSA02J-150X	MG R	15Ω 1/10W J	*
	R0836	NRSA02J-151X	MG R	150Ω 1/10W J	*
	R0837	NRSA02J-332X	MG R	3.3kΩ 1/10W J	*
	R0838	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	R0839	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0840	NRSA02J-822X	MG R	8.2kΩ 1/10W J	*
	R0841	NRSA02J-103X	MG R	10kΩ 1/10W J	*
	R0842	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0843	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0844	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0845-48	NRSA02J-221X	MG R	220Ω 1/10W J	*
	R0849	NRSA02J-222X	MG R	2.2kΩ 1/10W J	*
	R0850	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0851	NRSA02J-153X	MG R	15kΩ 1/10W J	*
	R0852	NRSA02J-472X	MG R	4.7kΩ 1/10W J	*
	R0853-54	NRSA02J-102X	MG R	1kΩ 1/10W J	*
	R0855	NRSA02J-223X	MG R	22kΩ 1/10W J	*
	R0856-58	NRSA02J-473X	MG R	47kΩ 1/10W J	*
	R0859-62	NRSA02J-562X	MG R	5.6kΩ 1/10W J	*
	R0867-68	NRSA02J-101X	MG R	100Ω 1/10W J	*
	R0869-71	NRSA02J-820X	MG R	82Ω 1/10W J	*
	R0872-74	NRSA02J-821X	MG R	820Ω 1/10W J	*
	R0875-99	NRSA02J-820X	MG R	82Ω 1/10W J	*
	R0900-04	NRSA02J-820X	MG R	82Ω 1/10W J	*

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0001	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C0002	NEH71CM-106X	E CAP.	10µF 16V M	
	C0005	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0006	QETM1HM-107	E CAP.	100µF 50V M	*
	C0007	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0008	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0009	NCB21HK-102X	C CAP.	1000pF 50V K	*
	C0100	NEHE1CM-227X	E CAP.	220µF 16V M	
	C0102-05	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0110	NCB21HK-222X	C CAP.	2200pF 50V K	*
	C0111	NEH71HM-335X	E CAP.	3.3µF 50V M	
	C0112	QFLB1HJ-683	M CAP.	0.068µF 50V J	*
	C0113	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0114	NDC21HJ-561X	C CAP.	560pF 50V J	*
	C0115	NEH71HM-335X	E CAP.	3.3µF 50V M	
	C0116	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0117	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0118	NCB21HK-682X	C CAP.	6800pF 50V K	*
	C0120	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0123	NEHE1EM-107X	E CAP.	100µF 25V M	
	C0124-26	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0129	QETM1CM-107	E CAP.	100µF 16V M	*
	C0130	NDC21HJ-102X	C CAP.	1000pF 50V J	*
	C0131	NEH71HM-474X	E CAP.	0.47µF 50V M	
	C0133-34	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0135	NEH71EM-336X	E CAP.	33µF 25V M	
	C0136	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0137	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0138	NEH71HM-474X	E CAP.	0.47µF 50V M	

⚠	Symbol No.	Part No.	Part Name	Description	Local

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C0142	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0143-44	NCB21HK-472X	C CAP.	4700pF 50V K	*
	C0145	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0148	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0149	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0153	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0154-55	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0160	NEH71CM-476X	E CAP.	47µF 16V M	
	C0165	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0166	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	C0304	NCB21HK-332X	C CAP.	3300pF 50V K	*
	C0305	NCF21EZ-474X	C CAP.	0.47µF 25V Z	*
	C0306	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0307	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0308	NCB21HK-332X	C CAP.	3300pF 50V K	*
	C0309	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0310-11	NDC21HJ-150X	C CAP.	15pF 50V J	*
	C0312-16	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0317	QETM1AM-477	E CAP.	470µF 10V M	*
	C0318-20	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0321-23	NEH71CM-476X	E CAP.	47µF 16V M	
	C0601	NCB21HK-393X	C CAP.	0.039µF 50V K	*
	C0602	QETM1CM-107	E CAP.	100µF 16V M	*
	C0603	NCB21HK-103X	C CAP.	0.01µF 50V K	*
	C0604	NEH71CM-476X	E CAP.	47µF 16V M	
	C0605	NEH71CM-106X	E CAP.	10µF 16V M	
	C0606	NEH71HM-105X	E CAP.	1µF 50V M	*
	C0800	NEH71CM-106X	E CAP.	10µF 16V M	
	C0801	NEH71CM-476X	E CAP.	47µF 16V M	
	C0802-03	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0804	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0805-08	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0809	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0813-14	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0817	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0818	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0822-26	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0829-36	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0837-38	NEH71CM-476X	E CAP.	47µF 16V M	
	C0844	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0845	NEH71CM-476X	E CAP.	47µF 16V M	
	C0846	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0850	NEH71CM-106X	E CAP.	10µF 16V M	
	C0851-52	NCB21EK-104X	C CAP.	0.1µF 25V K	*
	C0853	NEH71CM-106X	E CAP.	10µF 16V M	
	C0854-55	NCB21EK-104X	C CAP.	0.1µF 25V K	*
	C0856	NEH71CM-476X	E CAP.	47µF 16V M	
	C0857	NEH71EM-475X	E CAP.	4.7µF 25V M	
	C0858	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0859	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0860	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0861	NDC21HJ-220X	C CAP.	22pF 50V J	*
	C0862-64	NDC21HJ-680X	C CAP.	68pF 50V J	*
	C0865	NEH71CM-106X	E CAP.	10µF 16V M	
	C0866-71	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0872	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0873	NCF21EZ-104X	C CAP.	0.1µF 25V Z	*
	C0874	NCB21HK-104X	CHIP CAP.	0.1µF 50V K	*
	C0875	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M	
	C0876	NDC21HJ-221X	C CAP.	220pF 50V J	*
	C0877	NEH71CM-106X	E CAP.	10µF 16V M	

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T0001	QQR0626-001	I.F.TRANSF.		*
	T0102	CELT040-301	S.I.F.TRANSF.		*
	T0103	CELT001-307	C.WAVE TRANSF.		*

⚠	Symbol No.	Part No.	Part Name	Description	Local
	COIL				
	L0002-05	NQL024J-100X	COIL	10μH	
	L0100	QQLZ014-R47	PEAKING COIL	0.47μH	*
	L0102	NQL011K-1R5X	COIL	1.5μH	*
	L0103	NQL024J-120X	COIL	12μH	
	L0107	NQL011K-2R2X	COIL	2.2μH	*
	L0109	NQL011K-5R6X	COIL	5.6μH	*
	L0152	NQL011K-8R2X	COIL	8.2μH	*
	L0153	NQL011K-5R6X	COIL	5.6μH	*
	L0165	NQL011K-4R7X	COIL	4.7μH	*
	L0801	NQL02BJ-4R7X	COIL	4.7μH	*
	L0803	NQL011K-4R7X	COIL	4.7μH	*
	L0804	NQL02BJ-4R7X	COIL	4.7μH	*
	L0805-06	NQL011K-4R7X	COIL	4.7μH	*
	TRANSISTOR				
	Q0100	2SC5083/L-P/-T	SI.TRANSISTOR		*
	Q0105	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0108	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0110	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0166	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0168-69	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0600-01	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0801-04	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0805	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0806-07	2SA1162/YG/-X	SI.TRANSISTOR		*
	Q0808-09	2SC2712/YG/-X	SI.TRANSISTOR		*
	Q0810	2SA1162/YG/-X	SI.TRANSISTOR		*
	IC				
	IC0101	TA8865BN	I.C.(MONO-ANA)		*
	IC0301	TDA9143/N2/S1	I.C.(MONO-ANA)		
	IC0302	TDA4665	I.C.(MONO-ANA)		*
	IC0303	LA7016	I.C.(MONO-ANA)		*
	IC0801	SAB9079HS/N1	I C		*
	IC0802	MSM5416283-60-X	4M VD-RAM		
	IC0803	AN5860	I.C.(MONO-ANA)		*
	IC0804	TC4066BF/N/-XE	I C		
	IC0805	CXA1875AM-X	I.C.(MONO-ANA)		
	OTHERS				
	CF0101	CSB503F30-T2	CER.RESONATOR		*
	CF0102-03	FTP41.50MF	CERAMIC FILTER		*
	CF0160	TPSH6.0MB	CERAMIC FILTER		*
	CF0164	QAX0337-001	CERAMIC FILTER		
	K0001-02	CE41433-001Z	BEADS CORE		*
	SF0100	QAX0315-001	SAW FILTER		*
	SF0102	QAX0352-002	SAW FILTER		
	TU0001	QAU0132-001	TUNER		*
	UD0001	CEGA016-001	RF SPLITTER		
	W0001	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	X0301	CE40749-001J1	CRYSTAL		*
	X0302	CE40668-001	CRYSTAL		*
	Y0103-07	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*
	Y0110	NRSA02J-0R0X	MG R	0.0Ω 1/10W J	*

SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W001A-U2)

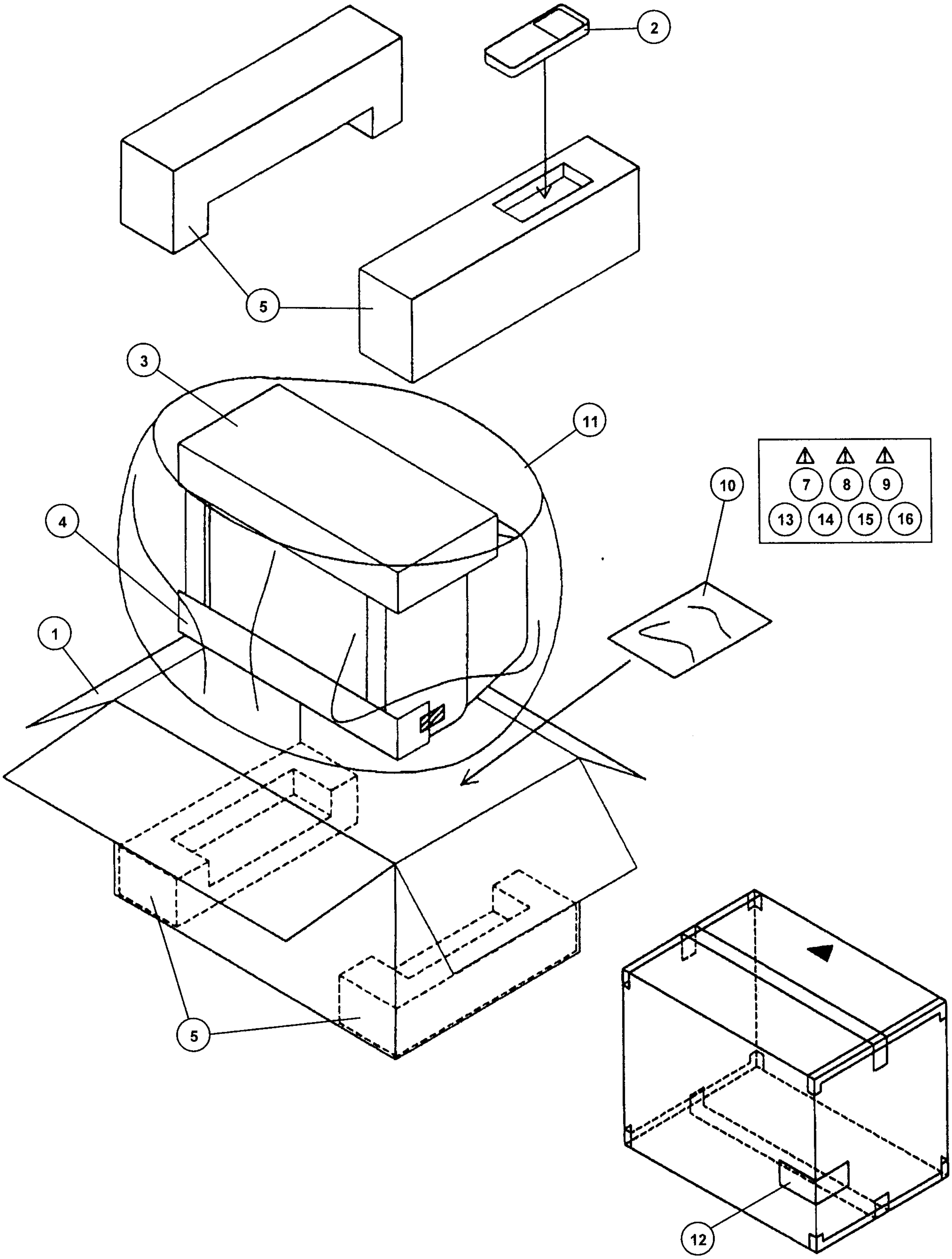
Refer to PARTS LIST in page 61 for this P.W. board.

100Hz PW BOARD ASS'Y (SMD0Z001A-U2)

Refer to PARTS LIST in page 62 for this P.W. board.

AV-32WFP1EU / AV-32WFP1EK

PACKING


2
5
3
11
⚠ ⚠ ⚠
7 8 9
13 14 15 16
10
4
1
5
12

PACKING PARTS LIST

AV-32WFP1EU

⚠	Ref. No.	Part No.	Part Name	Description	Local
	1	AEM1002-065-E	PACKING CASE		*
	2	RM-C787-1E	REMOCON UNIT		*
	3	AEM3022-003-E	CUSHION SHEET		*
	4	AEM3022-004-E	CUSHION SHEET		*
	5	LC10384-002A-U	CUSHION ASSY	4pcs in 1set	*
⚠	7	LCT0337-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP	*
⚠	8	LCT0338-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR	*
⚠	9	LCT0339-001A-U	INST BOOK	For POL/CZE/HUN/ROM/BUL/RUS	*
	10	AEM3021-001-E	POLY BAG		*
	11	AEM1004-A07-E	POLY BAG		*
	12	AEM1039-057-E	EURO LABEL		*
	13	BT-20066A-E	ADDRESS CARD	(1295)	*
	14	BT-54013-1E	WARRANTY CARD		*
	15	LC10102-009A-U	X-RAY CARD		*
	16	32WP2ENA-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)	

AV-32WFP1EK

	1	AEM1002-065-E	PACKING CASE		*
	2	RM-C786-1E	REMOCON UNIT		*
	3	AEM3022-003-E	CUSHION SHEET		*
	4	AEM3022-004-E	CUSHION SHEET		*
	5	LC10384-002A-U	CUSHION ASSY	4pcs in 1set	*
⚠	7	LCT0340-001A-U	INST BOOK		*
	10	AEM3021-001-E	POLY BAG		*
	11	AEM1004-A07-E	POLY BAG		*
	12	AEM1039-056-E	EURO LABEL		*
	13	BT-20066A-E	ADDRESS CARD	(1295)	*
	14	BT-54013-1E	WARRANTY CARD		*

OPERATING INSTRUCTIONS [AV-32WFP1EU AV-32WFP1EK]

JVC

COLOUR TELEVISION

AV-32WFP1EU

ENGLISH

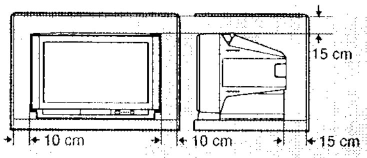
Instructions

Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. *Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.*
2. *Avoid damaging the AC plug and power cord.*
3. *Avoid improper installation and never position the unit where good ventilation is unattainable.*
   When installing this television, distance recommendations must be maintained between the floor and wall, as well as instalment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.



4. *Do not allow objects or liquid into the cabinet openings.*
5. *In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.*

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC socket.

Natural Vision

T-V LINK

CONTENTS

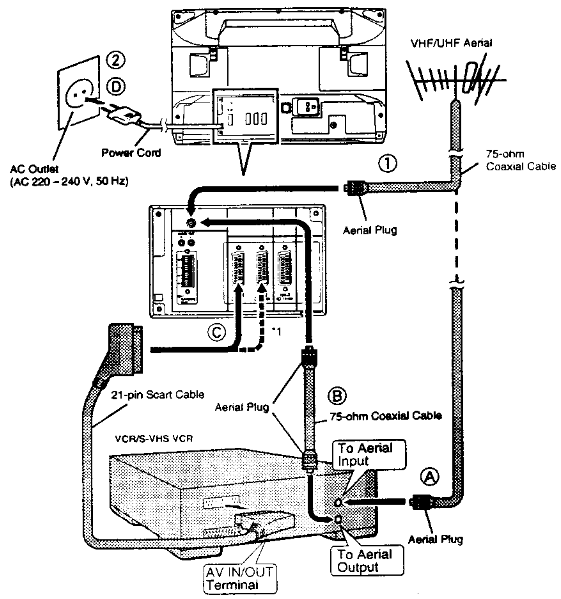
Preparation . . . 2
T-V LINK Functions . . . 5
Basic Operation . . . 6
Remote Control Buttons and Functions . . . 8
Menu Operation . . . 16
Picture Setting . . . 17
Picture Features . . . 18
Sound Setting . . . 20
Digital Surround . . . 21
Headphone Surround . . . 23
EXT Setting . . . 24
Features . . . 25
Install . . . 27
Index . . . 31
Demo . . . 31
Additional Preparation . . . 32
Connecting Speakers . . . 33
Channel Table . . . 36
TV Buttons and Parts . . . 37
Troubleshooting . . . 38
Specifications . . . 40

Jun.1999 No.51550

Preparation

1 Connecting the Aerial and VCR

If connecting a VCR, follow Ⓐ → Ⓑ → Ⓒ → Ⓓ.
If not connecting a VCR, follow ① → ②.



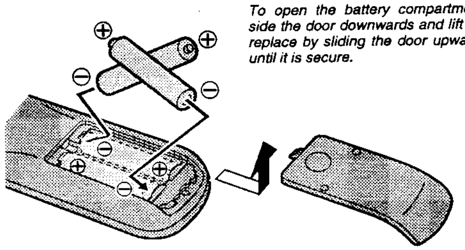
Notes:
- For further details, refer to the manuals provided with the devices to be connected.
- The connecting cables are not provided.
- A video can be viewed from the VCR without performing Ⓒ. For details, refer to the VCR manual.
- The ▨ shaded items are not provided.
- To connect additional external devices, please refer to page 32.
- To connect external speakers or audio system, please refer to page 33.

*1 This TV is T-V LINK compatible. To operate T-V LINK, a T-V LINK compatible VCR must be connected to the EXT-2 Terminal on the TV.

Notes:
- For details about T-V LINK, refer to page 5.
- When a decoder is connected to a T-V LINK compatible VCR, set the Decoder (EXT-2) in the Features menu to ON. (See "Decoder (EXT-2)" on page 26.) Otherwise, you will not be able to view scrambled channels.

2 Putting Batteries into the Remote Control

Use two AAA/R03 dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



To open the battery compartment, side the door downwards and lift off, replace by sliding the door upwards until it is secure.

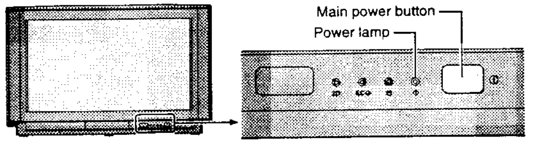
Notes:
- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on frequency of use.
- If the remote control doesn't work properly, replace the batteries.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as necessary.
- Always use good quality batteries.

3 Initial Setting

You can automatically set up to 99 TV stations to PR channels PR 1 to PR 99 on this TV.

1 Press the Main power button.

The Power lamp lights red (power on), then green (TV on).

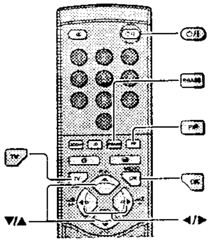


■ When the TV is first turned on, it enters the initial setting mode, and the JVC logo is displayed.

Notes:
- *If the power lamp stays red and does not change to green: Your TV is in the standby mode. Press ⏻/I (Standby) on the remote control to turn your TV on.*
- *The TV only enters the initial setting mode the first time it is switched on. If you want to change the language and programme settings after this, please refer to page 27.*

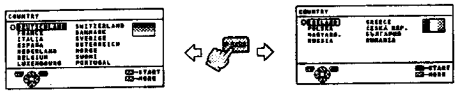
2 Press MENU/OK.

3 Press ◄/►/▼/▲ to choose ENGLISH.



4 Press MENU/OK.

The language is set for the on-screen display description, and the Country menu appears.



Note:
- *There are two country menus. Whenever you press PAGE, the country menus are switched.*

5 Press ◄/►/▼/▲ to choose your country.

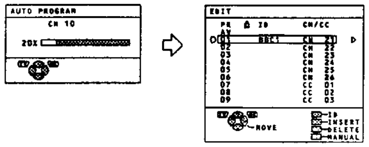
6 Press PIP.

The Auto Programming starts.

The EDIT menu is displayed ***after the PR channels have*** *been set.*

Notes:
- *If this TV identifies a broadcast station name, that station ID is also automatically registered in a PR channel.*
- *To cancel the Auto programming, press TV.*
- *To edit PR channels or allocate a station to the PR0 (AV) channel, refer to page 28 "Edit/Manual".*

(Continued to the next page)

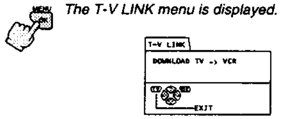


Note:
- *If a station you want to view is not set to a PR channel, manually set it using Edit menu. (See page 28.)*

When the ACI menu is displayed:
If your Cable TV station supports ACI (Automatic Channel Installation), the ACI menu is displayed. Please operate it according to the "ACI Operation" procedures at the bottom of this page. The channel is set quickly to the PR channel according to the order decided for all the channels.

7 Press ⌨ to exit the Edit menu.

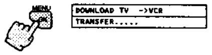
The T-V LINK menu is displayed.



■ When a T-V LINK compatible VCR is connected

8 Turn the VCR on.

9 Press ⌨.



The transmission of PR channel data from the TV to the VCR begins. The display disappears once the data transmission ends.
This completes the Initial Setting procedure.

■ When a T-V LINK compatible VCR is not connected

8 Press ⌨.

The menu disappears.
This completes the Initial Settings procedure.

Notes:
- *For details about T-V LINK, refer to page 5.*
- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's Instruction manual.*

ACI Operation

1 Press ▼/▲ to choose your area.

2 Press ⌨.
"ACI" is displayed in the AUTO PROGRAM menu and the ACI starts.
The EDIT menu is displayed after the channels have been set.

If "ACI ERROR" is displayed, press ⌨ to re-start the ACI.
- If "ACI ERROR" is displayed anyway, press ▶ and cancel ACI, then start the ordinary Auto Programming.

Note:
- *The ACI may not work correctly if you don't have good reception.*

T-V LINK Functions

■ When a T-V LINK compatible VCR is connected to the EXT-2 Terminal **on the TV, the procedures** for setting up the VCR and viewing videos are simplified.
■ T-V LINK uses the following features:

	Function	Features	Remarks
①	Preset Download	Downloads the PR channel tuning information from the TV to the VCR.	• Starts automatically when the initial setting is complete or whenever the Auto Program or Edit/Manual operations from the Install menu are performed. • This function can be operated via VCR operation.
②	DIRECT REC (WYSIWYR)	– What You See Is What You Record – You can record to VCR the images that you are currently viewing on TV by one-touch operation. For details, read the manual for your VCR.	• Operate via the VCR. (Operation via the TV is not possible.) "VCR IS RECORDING" is displayed.
③	TV Auto Power On	When the VCR starts playing, the TV automatically turns on and switches to the EXT-2 input mode.	• This function does not operate if your TV's main power is turned off. Set your TV's main power to on (standby mode).
	VCR Image View	When the VCR menu is operated, the TV automatically turns on and switches to EXT-2 input mode.	

■ To use T-V LINK:
- a T-V LINK compatible VCR is necessary.
- the VCR must be connected to the EXT-2 terminal on the TV by a fully wired SCART cable.

■ T-V LINK compatible VCRs:
In addition to all JVC VCRs that have the T-V LINK logo, any VCR that has one of the following logos are available for use:

"Q-LINK" (a trademark of Panasonic Corporation)
"Data Logic" (a trademark of Metz Corporation)
"Easy Link" (a trademark of Phillips Corporation)
"Megalogic" (a trademark of Grundig Corporation)
"SMARTLINK" (a trademark of Sony Corporation)

- These VCRs may support some or all of the features described above. For details, refer to the VCR instruction Manual.

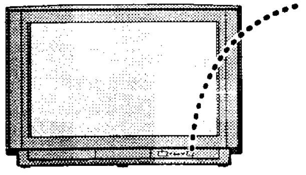
Note:
- *Not all VCRs support this type of data communication. Some may support certain features and not support others. For complete details, refer to the VCR Instruction Manual.*

■ When "FEATURE NOT AVAILABLE" is displayed:
If "FEATURE NOT AVAILABLE" is displayed after download execution, the download was not performed correctly. Confirm the following before re-executing download:
- that the VCR power is turned on.
- that the VCR is T-V LINK compatible.
- that the VCR is connected to the EXT-2 terminal.
- that the SCART cable is fully wired.

■ Operating Precautions for DIRECT REC:
- Generally, the VCR cannot record a channel that cannot be received properly by the VCR's tuner even though that channel could be viewed on the TV.
- In the following conditions, the VCR will stop recording if the TV is turned off, if the TV channel or input is switched, or if the menu is displayed on the TV:
  - When recording images from an external device connected to the EXT-1, EXT-3 or EXT-4 terminal.
  - When recording a channel after it has been unscrambled on a decoder.
  - When recording a channel by using the TV's output because that channel cannot be properly received on the VCR's tuner.

Note:
- *Some VCRs can record a channel by using the TV's output if that channel can be viewed on the TV, even though the channel cannot be received properly by the VCR's tuner.*
  For details, refer to the VCR Instruction Manual.

Basic Operation



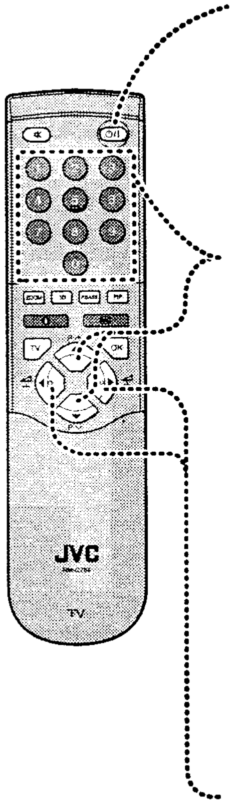
Turn the Main power on.

The Power lamp lights red and your TV is in the stanby mode.
- If the Power lamp lights green, the TV is already on.

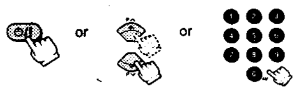
- To turn the Main power off:

The Power lamp goes off.
- To save energy, turn the main power off if not using the TV for a long period of time.

Operating with the Remote Control



1 Turn the TV on from standby mode.

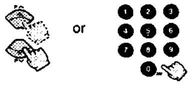


The Power lamp lights red to green.

- To turn the TV off:

The Power lamp changes from green to red.
The TV enters standby mode.

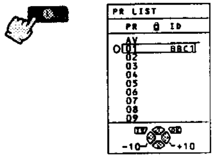
2 Choose a TV channel.



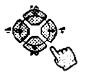
Example
- PR12 → press ❶ and ❷.
- PR6 → press ❻.

Use the PR List:

1 Display the PR List.


PR LIST
PR
ID
AV
01
02
03
04
05
06
07
08
09
-10
+10

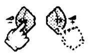
2 Choose a TV channel.



3 Press ⓞⓚ.

Notes:
- *For channels with Child Lock set, a 🔒 (Locked) mark is displayed next to the channel number.*
- *Using the PR List, the EXT terminal can also be chosen. Each EXT terminal is after the PR 99 channel.*
- *If you don't have a clear picture or no colour appears, change the colour system manually. See "Colour System" on page 18.*
- *If the picture is tilted or unnatural colour appears in the corner of the screen, correct the picture. See "Picture Tilt" on page 19.*

3 Adjust the volume.

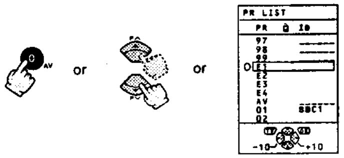


The Volume indicator appears and the volume changes as –/+ are pressed.

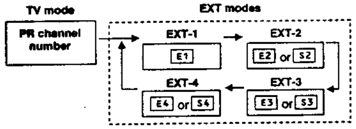
To listen to the sound using headphones, see "Headphone" on page 21.

Watch images from external devices.

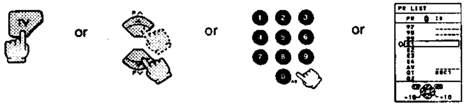
Choosing an EXT terminal or PR 0 (AV) channel.


or
or
PR LIST
PR
ID
97
98
99
E1
E2
E3
E4
AV
01
02
-10
+10

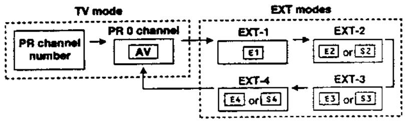
- The EXT terminals are registered after the PR 99 channel.
- Pressing ⓞAV button changes the choice as follows:


TV mode
EXT modes
PR channel number
EXT-1
E1
EXT-2
E2 or S2
EXT-3
E3 or S3
EXT-4
E4 or S4

- To return to a TV channel:


or
or
or
PR LIST

- When the TV and VCR are connected only by the RF cable, the VCR RF channel* must be preset to the PR 0 (AV) channel to view VCR video. Choosing the PR 0 (AV) channel allows you to view images from VCR video.
Pressing ⓞAV button changes the choice as follows:

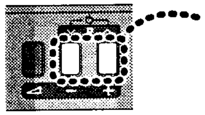

TV mode
EXT modes
PR channel number
PR 0 channel
AV
EXT-1
E1
EXT-2
E2 or S2
EXT-3
E3 or S3
EXT-4
E4 or S4

Notes:
- *To use S-Video mode to view input from an S-VHS VCR, see "To choose S-VIDEO input" on page 24. When choosing EXT-2, EXT-3 or EXT-4 input terminals as S-VIDEO input, E2, E3 or E4 changes to S2, S3 or S4 in the display.*
- *If you don't have a clear picture or no colour appears, change the colour system manually. (See "Colour System" on page 18.)*
- *When choosing an EXT terminal with no input signal, the EXT number and ID become fixed on screen.*

Note:
- *The VCR RF channel is the channel that is sent as the RF signal from the VCR. To set the VCR RF channel to the PR 0 (AV) channel, refer to "Edit/Manual" on page 28. Also refer to the manual provided with the VCR.*

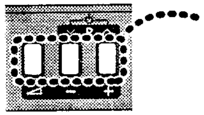
Operating with the Buttons on the TV

(Behind the front cover)



1 Turn the TV on from standby mode.

2 Choose a channel or an EXT terminal.

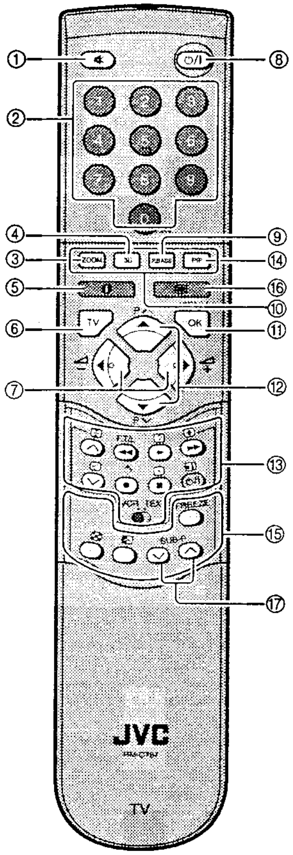


3 Adjust the volume.

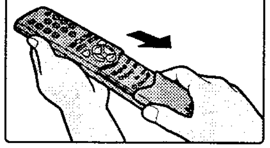
1 Press ◿ **.**
The volume level indicator appears.

2 Press –/+ while the volume level indicator is displayed.
Indicator is displayed.

Remote Control Buttons and Functions



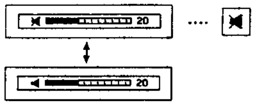
How to open the cover.



① Muting Button

You can turn the volume off instantly.

Pressing (Muting) changes the current volume to "0".



② Number Buttons

You can choose a channel by entering the channel number.

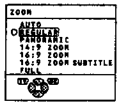
Example:
- PR 12 → press ❶ and ❷.
- PR 6 → press ❻.

■ You can choose an EXT terminal or PR 0 (AV) channel by pressing ⓿ button repeatedly.

③ ZOOM Button

You can change the screen size. (See page 9.)

1 Press ZOOM and press ▼/▲ to choose ZOOM mode.



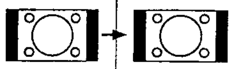
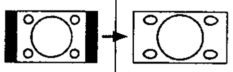
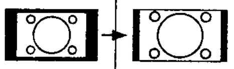
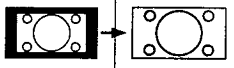
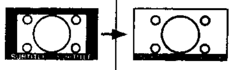
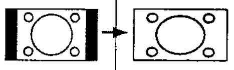
```
ZOOM
  AUTO
○ REGULAR
  PANORAMIC
  14:9 ZOOM
  16:9 ZOOM
  16:9 ZOOM SUBTITLE
  FULL
```

2 Press OK.

The picture expands and the choosed ZOOM mode is displayed in about 5 seconds.

Examples:
- *For details, see next page.*
- *You can preset a ZOOM mode for the normal picture. See "4:3 Auto Aspect" on page 19.*

ZOOM Button (continued)

Mode	Recommended Picture (Aspect)		Display	Remarks
AUTO	Any picture format except Normal Picture (4:3 Aspect Ratio)		The picture will be automatically displayed in the optimum screen size.	• AUTO may not function properly with poor signal quality. In this case, choose an optimum ZOOM mode manually.
	Normal Picture (4:3 Aspect Ratio)		Displayed in accordance with the zoom mode set on the 4:3 Auto Aspect menu. (See page 19 for further details.)	
REGULAR	Normal Picture (4:3 Aspect Ratio)			• Use to view a normal picture (4:3 aspect ratio) unchanged.
PANORAMIC	Normal Picture (4:3 Aspect Ratio)			• This mode stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural. • The top and bottom of the picture are slightly cut off.
14:9 ZOOM	Wide Picture (14:9 Aspect Ratio)			
16:9 ZOOM	Wide Picture (16:9 Aspect Ratio)			
16:9 ZOOM SUBTITLE	Wide Picture (16:9 Aspect Ratio) with Subtitles			
FULL	Normal Picture (4:3 Aspect Ratio)			• This mode uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen. • Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), you can restore their original dimensions.

Note:
- *This television supports WSS (wide-screen signals). When broadcasts with WSS are received with the ZOOM mode set at AUTO, the most suitable ZOOM mode is automatically selected in accordance with the WSS.*

Adjusting the visible area of the picture.

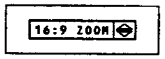
If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

1 Press ZOOM .

The ZOOM menu appears.

2 Press OK to display the ZOOM mode indication.

Indicator is displayed.



```
16:9 ZOOM
```

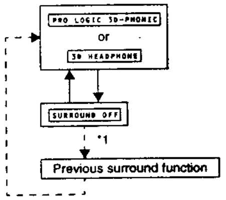
3 Before it disappears, press ▼/▲ to adjust the visible area vertically.

Notes:
- *You cannot adjust the visible area in AUTO, REGULAR and FULL mode.*
- *To return to the default position, display the ZOOM menu again and press OK.*

ENGLISH

④ 3D Button

Pressing 3D (3D) toggles the surround function as follows:

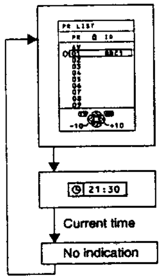


*1: If a surround function different from the Dolby Pro Logic 3D-Phonic or the 3D Headphone is activated before you press 3D (3D), that surround function is returned to.

- The Dolby Pro Logic 3D-Phonic will be activated when the headphones are not connected. For details on the Dolby Pro Logic 3D-Phonic, refer to page 21.
- The 3D Headphone will be activated when the headphones are connected. For details on the 3D Headphone, refer to page 23.
- The 3D lamp on the TV lights when the Dolby Pro Logic 3D-Phonic or 3D Headphone function is activated.

⑤ Information Button

Pressing (Information) changes the display as follows.



About the PR List:
You can choose TV channels and EXT terminals operating the PR List. For details, see "Use the PR List" on page 6.

About the current time display:
This TV uses teletext data to set the current time.

- If the TV has not received a station that has teletext data since it was turned on, the time display is blank. To see the current time, choose a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you choose other stations, the time will still be displayed.
- When watching videos, the wrong current time is sometimes displayed.

> ***Note:***
> - *When an EXT terminal with no input signal is chosen, the EXT number and ID become fixed on the screen.*

■ The (Information) button is also used for the menu operation.
Please refer to "Menu Operation" on page 16 for more information.

⑥ TV Button

You can return to the TV mode instantly by pressing TV.

■ The TV button is also used for the menu operation.
Please refer to "Menu Operation" on page 16 for more information.

⑦ ◀/▶ Buttons

You can adjust the volume.

■ The Headphone volume cannot adjusted with the ◀/▶ buttons. If you want to adjust it, please refer to "Headphone" on page 21.

■ The ◀/▶ buttons are also used for the menu operation.
Please refer to "Menu Operation" on page 16 for more information.

⑧ Standby Button

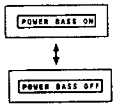
Pressing (Standby) button turns the TV on or off.

- When the TV is turned on, the power lamp changes from red to green.

⑨ P.BASS (power bass) Button

You can enjoy richer and fuller bass sound.

Pressing P.BASS (Power Bass) turns the Power Bass on or off.



⑩ Colour Buttons

The colour buttons are used for the teletext operations or the menu operations. Please refer to "Teletext Control Buttons and VCR/TEXT Switch" on page 14 or "Menu operation" on page 16 for more information.

⑪ OK Button

The OK button is used for menu operation.
Please refer to "Menu Operation" on page 16 for more information.

⑫ ▼/▲ Buttons

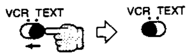
You can choose a channel by pressing the ▼/▲ buttons.

■ The ▼/▲ buttons are also used for the menu operation.
Please refer to "Menu Operation" on page 16 for more information.

⑬ VCR Control Buttons and VCR/TEXT Switch

You can control your JVC VCR using the VCR Control buttons.

1 Set the VCR/TEXT Switch to the VCR side.



2 Press a VCR control button to control your JVC VCR.

> ***Notes:***
> - *For details on the VCR Control buttons, see the VCR manual.*
> - *Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.*

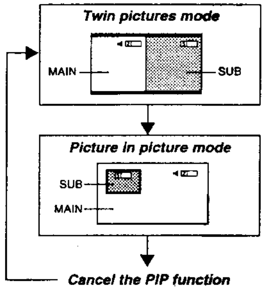
⑭ ⑮ PIP (picture in picture) Control buttons

■ PIP operation

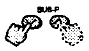
Two pictures (MAIN and SUB) are displayed at the same time.

1 Display the SUB-picture and choose a mode.

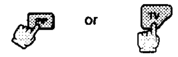
Pressing PIP changes a PIP mode as follows.



2 Choose a channel or an EXT mode for the SUB-picture.



- Cancelling the PIP function.



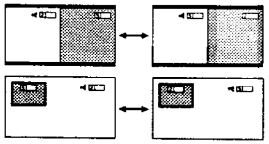
Listening to the sound of SUB-picture.

You can listen to the sound of SUB-picture on your headphones while listening to the sound of MAIN-picture on the speakers.
For details, see "Headphone" on page 21.

Choosing a position for SUB-picture.

You can choose one of four positions.
For details, see "PIP" on page 19.

Swapping the MAIN and SUB-pictures.



Notes:

- *The MAIN-picture and SUB-picture must be different.*
- *If the MAIN-picture signal is poor, then the quality of SUB-picture may also poor.*
- *If the picture standard of both pictures is different, the top and bottom or one of them may be missing.*
- *If an external device is operated, the SUB-picture may disappear. If this happens, press PIP again to redisplay the SUB-picture.*
- *If you display a menu, the PIP function will be cancelled.*
- *You cannot view a scrambled channel in the SUB-picture. If the (swap) is pressed when viewing a scrambled channel in the MAIN picture using an external decoder, the channel you have been viewing in the SUB-picture will appear in both the MAIN-picture and SUB-picture.*
- *The SUB-picture or Multi-pictures cannot be output from TV as TV output signals.*
- *Do not press (swap) while you are recording the TV output on the VCR. If you do, the TV output signal will change.*

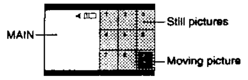
■ Multi-picture operation

You can display multi-pictures that enable you to easily find a program you want to view.

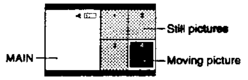
1 Display the multi-pictures.

The channels and EXT mode pictures are displayed in the channel number order.
The multi-pictures will appear in one of the two multi-picture modes.

10-pictures multi:



5-pictures multi:

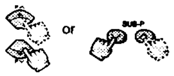


Display the next multi-pictures

- Cancelling the multi-pictures.

Multi-picture operation (continued)

2 Choose a picture you want to view.



The chosen picture changes to a moving picture.

3 Press .

The multi-pictures disappear and the choosen picture appears.

Changing the multi-picture mode.

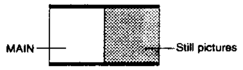
See "PIP" on page 19.

Notes:

- *You cannot display a menu in the multi-picture mode. If you want to display a menu, press TV to cancel the multi-picture mode.*
- *The Station ID of each channel will be displayed as up to three characters in the multi-pictures.*
- *You cannot use an external decoder for the channel in a multi-picture. The scrambled channels in multi-pictures will be displayed as scrambled.*

■ Freeze Operation

You can view the Main picture's frozen image as the SUB-picture.



- Cancelling the Freeze function.

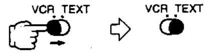
⑩ ⑬ ⑯ ⑰ Teletext Control Buttons and VCR/TEXT Switch

■ Basic operation

You can view three types of teletext broadcasts on the TV; Fastext, TOP and WST.

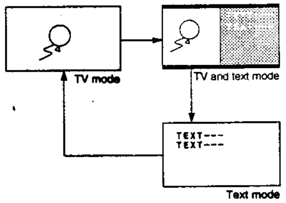
1 Choose a channel with a teletext broadcast.

2 Set the VCR/TEXT switch to the TEXT side.

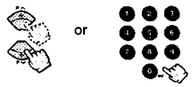


3 Display the teletext.

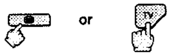
Pressing ▨ (Text) change the mode as follows:



4 Choose a teletext page.



- To return to the TV mode:



Notes:
- *If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.*
- *Category names of teletext pages may appear instead of page numbers.*
- *In Text mode, ZOOM mode is fixed to FULL mode.*
- *None of the Menu operations are possible when viewing a teletext programme.*
- *Language display depends on the country which was set on the Country menu. If characters on a Teletext programme do not appear properly, change the Country Setting to other country's. For detail, see "changing the Country Setting" on page 30.*

■ Viewing a TV programme on the current channel and Teletext programme on the other channel at the same time.

1 Choose a teletext programme.

Only teletext programmes can be changed.

- Once returned to the TV mode, this operation will be canceled.

Notes:
- *You can view a Teletext programme on the other channel while listening to the current TV programme even in the Text mode.*
- *A Teletext programme on the 🔒 (Locked) channel cannot be viewed.*

■ Using the List Mode

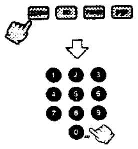
You can store the numbers of your favourite teletext pages and call them up quickly using the colour buttons.

To store the page numbers

1 Engage the List mode.

Stored page numbers are displayed at the bottom of the screen.

2 Choose the position, then enter the page number.



3 Press ⓢ (Store) and hold on.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page

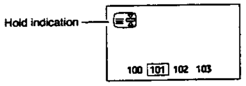
1 Engage the List mode.

To cancel the List mode:

2 Press a colour button to which a page has been assigned.

■ Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.



To cancel the hold:

■ Sub Page

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

1 Display the sub-page list.

Sub-page numbers are displayed at the left of the screen.

Colour*	Meaning of sub-page number
Yellow	Currently being displayed.
White	Can be displayed.
Blue or Red	Cannot be displayed and it is not sent.

*: Background color of the sub-page number.

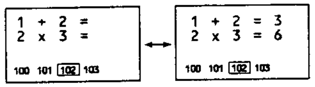
2 Choose a sub-page.

- *To cancel sub-page:*

■ Reveal

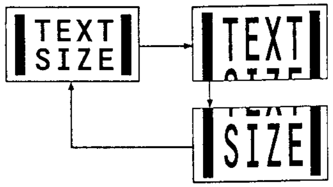
Some teletext pages include hidden text (such as answers to a quiz).

Each time you press ⓡ (Reveal), text is hidden or revealed.



■ Size

You can double the height of the teletext display.



■ Index

You can return to the index page instantly.

Fastext/TOP/WST:
Returns to page 100 or a previously specified page.
List mode:
Returns to the page number displayed in the lower left area of the screen.

■ Cancel

You can search for a teletext page while watching TV.

1 Choose a teletext page.

The TV searches for a teletext page.

2 Cancel teletext mode temporarily.

The TV programme appears.
When the TV finds the teletext page, its page number appears in the upper left of the screen.

3 Return to a teletext page when the page number is on the screen.

ENGLISH

Menu Operation

1 Display MENU.

The MENU (main menu) appears.

2 Choose an item.

3 Display the Sub-menu.

4 Choose an Sub-menu item.

5 Change the setting.

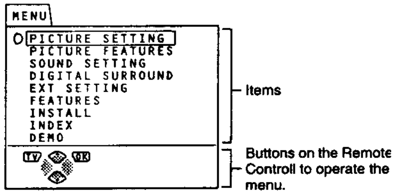
- Depending on the Sub-menu display, the following buttons can be used.

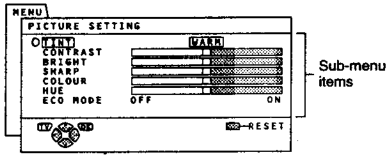
6 Complete the setting.

The menu disappears.

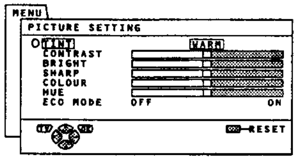
To return to the previous menu or exit the MENU.

To exit the MENU instantly.


MENU
PICTURE SETTING
PICTURE FEATURES
SOUND SETTING
DIGITAL SURROUND
EXT SETTING
FEATURES
INSTALL
INDEX
DEMO
TV
OK
Items
Buttons on the Remote Controll to operate the menu.


MENU
PICTURE SETTING
TINT
WARM
CONTRAST
BRIGHT
SHARP
COLOUR
HUE
ECO MODE
OFF
ON
TV
OK
RESET
Sub-menu items

Picture Setting


MENU
PICTURE SETTING
TINT
WARM
CONTRAST
BRIGHT
SHARP
COLOUR
HUE
ECO MODE
OFF
ON
TV
OK
RESET

1 Display MENU.

2 Choose PICTURE SETTING.

3 Display the Picture Setting menu.

Tint

You can choose one of three Tint modes to adjust the picture settings automatically.

1 **Press ▼/▲ to choose TINT.**

2 **Press ◀/▶ to choose a mode.**

COOL:
A cool white colour base with a boost in the colour and contrast levels that creates a more vivid picture.
WARM:
A warm orange/red colour base that creates the appropriate colour and contrast levels for watching films.
NORMAL:
A normal white colour base with normal colour and contrast levels.

3 **Press OK.**

This completes the setting.

Picture Adjustment

You can adjust the picture to your liking.

1 **Press ▼/▲ to choose an item.**

2 **Press ◀/▶ to adjust the setting.**

◀	Item	▶
Lower	CONTRAST (picture contrast)	Higher
Darker	BRIGHT (picture brightness)	Brighter
Softer	SHARP (picture sharpness)	Sharper
Lighter	COLOUR (picture colour)	Deeper
Reddish	HUE (picture hue)	Greenish

Note:
- *You can adjust the HUE (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.*

- To return to the default settings, press the blue button.

3 **Press OK.**

This completes the setting.

Eco Mode

When you set the Eco Mode to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room.
This reduces eye strain and the power consumption of the TV.

1 **Press ▼/▲ to choose ECO MODE.**

2 **Press ◀/▶ to choose ON.**

- To cancel the Eco Mode, choose OFF.

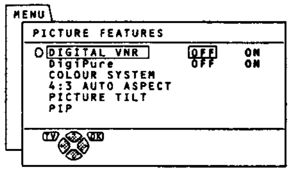
3 **Press OK.**

This completes the setting.

- If you set the Eco Mode to ON, the Eco lamp lights.

ENGLISH

Picture Features



1 Display MENU.

2 Choose PICTURE FEATURES.

3 Display the Picture Features menu.

Digital VNR

When you set the Digital VNR to ON, you can reduce the noise on the screen so improving picture quality further.

1 **Press ▼/▲ to choose Digital VNR.**

2 **Press ◀/▶ to choose ON.**
- *To cancel the Digital VNR, choose OFF.*

3 **Press** OK**.**
This completes the setting.

DigiPure

When the DigiPure is set to ON, optimum edge compensation applies to each portion of the same picture through digital edge compensation. Thus, Clear and natural looking images are obtained.

1 **Press ▼/▲ to choose DigiPure.**

2 **Press ◀/▶ to choose ON.**
- *To cancel the DigiPure, choose OFF.*

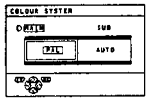
3 **Press** OK**.**
This completes the setting.

Notes:
- *Set the DigiPure to ON normally.*
- *The DigiPure function can also be set to ON and OFF by pressing ◿ (Volume) button on the TV for 5 seconds or more.*

Colour System

The colour system is automatically chosen, but if the picture is not clear or no colour appears, choose the colour system manually.

1 **Press ▼/▲ to choose COLOUR SYSTEM. Then Press** OK



2 **Press ◀/▶ to choose MAIN or SUB.**

MAIN:
You can choose the colour system of MAIN-picture.
SUB:
You can choose the colour system of SUB-picture.

3 **Press ▼/▲ to choose the appropriate colour system.**

PAL:
PAL system.
SECAM:
SECAM system.
NTSC3.58:
NTSC 3.58 MHz system.
NTSC4.43:
NTSC 4.43 MHz system.
AUTO:
Automatic colour system selection.

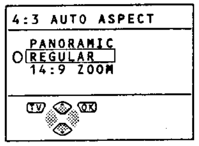
Notes:
- *The AUTO may not function properly with poor signal quality. If the picture is abnormal in AUTO mode, choose another colour system manually.*
- *When in the TV mode (PR 1 to PR 99), you cannot choose AUTO, NTSC 3.58 or NTSC 4.43.*
- *When in the TV mode (PR 0), you cannot choose NTSC 3.58 or NTSC 4.43.*

4 **Press** OK**.**
This completes the setting.

4:3 Auto Aspect

You can preset one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

1 **Press ▼/▲ to choose 4:3 AUTO ASPECT. Then press** OK**.**
The 4:3 AUTO ASPECT menu appears.



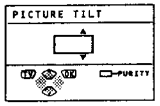
2 **Press ▼/▲ to choose a ZOOM mode.**

3 **Press** OK**.**
This completes the setting.

Picture Tilt

There are cases where the effects of the magnetic pull from the earth may make the picture tilt or make unnatural colours appear in the corner of the screen. If this happens, correct the picture as follows.

1 **Press ▼/▲ to choose PICTURE TILT. Then press** OK**.**
The PICTURE TILT menu appears.



2 **Correct the picture.**

To correct picture tilt:

Press ▼/▲ until the picture becomes horizontal.

To reduce unnatural colouring:

1 **Press the blue button in order to display the purity correction screen.**

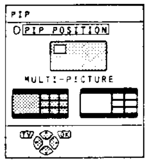
2 **Press ◀/▶ until the unnatural colouring is reduced as much as possible.**

3 **Press** OK**.**
The correction is complete.

PIP

You can choose one of four positions of the SUB-picture. You can also choose one of two Multi-Picture modes.

1 **Press ▼/▲ to choose PIP. Then press** OK**.**
The PIP menu appears.



2 **Change the PIP menu setting.**

Choosing a position of SUB-picture:

1 **Press ▼/▲ to choose PIP POSITION.**

2 **Press ◀/▶ to choose a position.**

Choosing a Multi-picture mode:

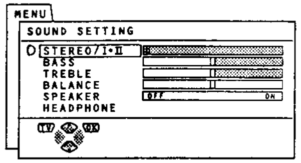
1 **Press ▼/▲ to choose MULTI-PICTURE.**

2 **Press ◀/▶ to choose a mode.**

3 **Press** OK**.**
This completes the setting.

ENGLISH

Sound Setting



1 Display MENU.

2 Choose SOUND SETTING.

3 Display the Sound Setting menu.

Stereo / I • II

You can choose Multi Sound mode for stereo broadcast programmes and bilingual programmes.

Note:
- *Multi Sound has no effect on programmes other than A2 (B/G, D/K) or NICAM (B/G, D/K, L) broadcast programmes.*

1 Press ▼/▲ to choose STEREO / I • II.

Notes:
- *The Multi Sound mode display is different from the broadcast programme.*
- *The Multi Sound function does not work in the EXT modes. And the STEREO / I•II does not appear in SOUND SETTING menu.*

2 Press ◀/▶ to choose a Multi Sound mode.

ꝏ : Stereo sound
I : Bilingual I (Sub I)
II : Bilingual II (Sub II)
O : Normal sound

3 Press OK.
This completes the setting.

Note:
- *When you display the current PR channel number, the current Multi Sound mode appears for approximately 3 seconds.*

Sound Adjustment

You can adjust the sound to your liking.

1 Press ▼/▲ to choose an item.

Note:
- *When DOLBY PRO LOGIC or PRO LOGIC 3D-PHONIC is chosen in the DIGITAL SURROUND menu, "BALANCE" does not appear. If you want to adjust the sound balance, see pages 22 and 34.*

2 Press ◀/▶ to adjust it.

◀	Item	▶
Weaker	BASS	Stronger
Weaker	TREBLE	Stronger
Left	BALANCE	Right

3 Press OK.
This completes the settings.

Speaker

It is possible to prevent the sound being emitted from the TV speakers. This function should only be used to emit the sound from an audio system connected to the television as a substitute for the TV speakers.

When you use your audio system instead of the TV speakers:
Please refer to "Connecting an Audio System" on page 34.

To output the sound from TV speakers:

1 Press ▼/▲ to choose SPEAKER.

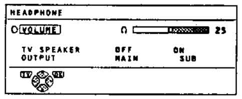
2 Press ◀/▶ to choose ON.

3 Press OK.
This completes the setting.

Headphone

You need to use the headphone menu in order to adjust the volume of the headphones. Use of the headphone menu also makes it possible to select whether to emit sound from the TV speakers when using the headphones, and whether to emit the sound of the MAIN-picture or SUB-picture through the headphones.

1 Press ▼/▲ to choose HEADPHONE. Then press OK.
The Headphone menu appears.



2 Change the setting.

To adjust the volume of the headphones:

1 Press ▼/▲ to choose VOLUME.

2 Press ◀/▶ to adjust the volume.

To prevent the sound being emitted from the TV speakers when the headphones are in use.

1 Press ▼/▲ to choose TV SPEAKER.

2 Press ◀/▶ to choose OFF.

- The sound will be emitted from the TV speakers even when listening on the headphones if the TV SPEAKER setting is at ON.

Notes:
- *Set the TV SPEAKER setting to ON in order to listen to the Sub-picture sound on the headphones and the Main-picture sound on the TV speakers.*
- *The Sub-picture sound cannot be emitted from the TV speakers.*
- *The sound output from AUDIO OUT terminals can not be turned off.*

To listen to the sound of the SUB-picture on your headphones:

1 Press ▼/▲ to choose OUTPUT.

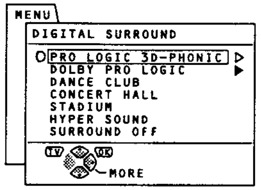
2 Press ◀/▶ to choose SUB.

- To listen to the sound of the MAIN-picture, press ◀/▶ to choose MAIN.

Notes:
- *When the SUB-picture is in TV mode, the SUB-picture sound is mono only.*
- *The Multi sound function does not work for the SUB-picture sound.*
- *Neither any of the surround sound functions nor the Power Bass function work for the SUB-picture sound.*

3 Press OK.
The completes the settings.

Digital Surround



1 Display MENU.

2 Choose DIGITAL SURROUND.

3 Display the Digital Surround menu.

Note:
- *The Headphone Surround menu appears when the headphones are connected.*

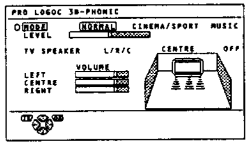
Dolby Pro Logic 3D-Phonic

You can enjoy the atmosphere of Dolby Surround programmes without external speakers.

Notes:
- *This function is only available for Dolby Surround encoded programmes.*
- *The 3D lamp lights while this function is operating.*

1 Press ▼/▲ to choose PRO LOGIC 3D-PHONIC. Then press ▶.

The PRO LOGIC 3D-PHONIC menu appears.



- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

2 Press ▼/▲ to choose MODE and ◀/▶ to choose a mode.

NORMAL:
For normal programmes
CINEMA/SPORT:
For cinema and sports programmes
MUSIC:
For music programmes

Adjusting the effect level:

Press ▼/▲ to choose LEVEL and ◀/▶ to adjust the effect levels.

Adjusting the speaker volume:

Press ▼/▲ to choose a speaker. Then, press ◀/▶ to adjust the volume level.

TV SPEAKER:
Only change this setting when you use your audio system instead of TV speakers. For details, refer to "Connecting an Audio System" on page 34.

Note:
- *When external speakers are not connected, leave the TV SPEAKER setting as L/R/C. Otherwise, the sound may not function properly or become mono.*

Press ▼/▲ to choose TV SPEAKER. Then, press ◀/▶ to choose a TV Speaker mode.

L/R/C:
Use when you do not use your audio system.
CENTRE:
Use when you use your audio system.
TV speakers will work as the centre speakers when you enjoy the Dolby Pro Logic 3D-Phonic.
This method enhances spoken dialogue.
OFF:
Use when you use your audio system.
TV speakers will not sound.
This mode does not use a centre speaker.

3 Press OK.

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Note:
- *When headphones are connected to the TV, the 3D Headphone function operates automatically.*

Using the 3D button:

You can turn on Dolby Pro Logic 3D-Phonic with one touch. For details, refer to "④ 3D Button" on page 10.

Dolby Pro Logic

You can enjoy Dolby Pro Logic® surround sound with additional surround speakers.
For connecting surround speakers, refer to "Connecting Surround Speakers" on page 34.

Notes:
- *This function will not work correctly if you do not connect the additional surround speakers.*
- *You can connect both your audio system and additional surround speakers, and enjoy Dolby Pro Logic surround sound. For details, refer to "Connecting both Your Audio System and Surround Speakers" on page 35.*
- *This function only available for Dolby Surround encoded programmes.*
- *You cannot enjoy Dolby Pro Logic surround sound with headphones.*

1 Press ▼/▲ to choose DOLBY PRO LOGIC.

2 Press OK.

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Note:
- *When headphones are connected to the TV, the 3D Headphone function operates automatically.*

- Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY", the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Other Surround Functions

You can enjoy enhanced sound by choosing one of four Digital Surround modes.

1 Press ▼/▲ to choose a mode.

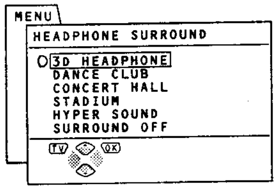
DANCE CLUB:
Creates a dance club atmosphere.
CONCERT HALL:
Creates a concert hall atmosphere.
STADIUM:
Creates a stadium atmosphere.
HYPER SOUND:
Enhances mono sound to create a stereo sound feel.

2 Press OK.

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Notes:
- *Digital surround functions other than Hyper Sound do not work well for programmes in mono.*
- *Hyper Sound only works for programmes in mono. It does not work well for programmes in stereo.*
- *If the headphones are connected while in one of the above modes, one of Headphone Surround functions will activate automatically.*

Headphone Surround



HEADPHONE SURROUND
3D HEADPHONE
DANCE CLUB
CONCERT HALL
STADIUM
HYPER SOUND
SURROUND OFF

Condition:
- *You have to connect the headphones to the TV before you display the MENU.*

1 Display MENU.

2 Choose HEADPHONE SURROUND.

3 Display the Headphone Surround menu.

Headphone Surround

You can enjoy enhanced sound while using headphones by choosing one of five Headphone Surround modes.

1 Press ▼/▲ to choose a mode.

3D HEADPHONE:
Creates a broad, atmospheric sound.
DANCE CLUB:
Creates a dance club atmosphere.
CONCERT HALL:
Creates a concert hall atmosphere.
STADIUM:
Creates a stadium atmosphere.
HYPER SOUND:
Enhances mono sound to create a stereo sound feel.

2 Press OK.

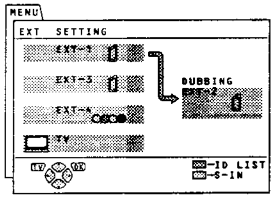
- ● To cancel the surround function, choose SURROUND OFF from the Headphone Surround menu and then press OK.

Using the 3D button:

You can turn on 3D Headphone with one touch. For details, refer to "④ 3D Button" on page 10.

Note:
- *The 3D lamp lights while the 3D Headphone function is operating.*

EXT Setting



1. Display MENU.

2. Choose EXT SETTING.

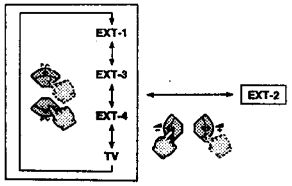
3. Display the EXT Setting menu.

EXT Setting

You can choose S-VIDEO or normal input for EXT-2, EXT-3 and EXT-4 terminals, and you can give an EXT ID to each EXT input terminal.

■ To choose S-VIDEO input

1. Press ◀/▶/▼/▲ to choose an EXT terminal.

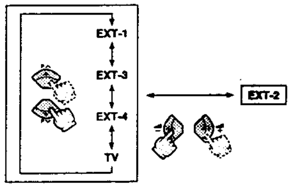


2. **Press the yellow button.**
The S-VIDEO input indication appears.
   - To choose normal input, press the yellow button again.

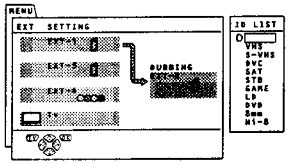
3. **Press ▣.**
This completes the setting.

■ To give an EXT ID

1. Press ◀/▶/▼/▲ to choose an EXT terminal.



2. Press the blue button.
The ID LIST appears.



3. Press ▼/▲ to choose a EXT ID.

Note:
- *To erase the EXT ID, choose a blank space.*

4. Press ▣.
The EXT ID is set to the EXT terminal.

5. Press ▣.
This completes the setting.

Dubbing

You can choose output to a VCR or other device connected to the EXT-2 terminal. Note that you cannot output from the EXT-2 terminal when the TV is turned off.

Note:
- *RGB signals from TV games and Teletext screens cannot be output from EXT-2 terminal.*

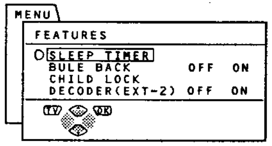
1. Press ◀/▶ to choose EXT-2.

2. Press ▼/▲ to choose the output.

If you choose TV:
The sound and picture of the currently chosen channel is output to EXT-2 and this output can be recorded on a VCR connected to the EXT-2 terminal while watching a video input from other terminals.

3. **Press ▣.**
This completes the setting.

Features



BULE BACK OFF ON
CHILD LOCK
DECODER(EXT-2) OFF ON

1. Display MENU.

2. Choose FEATURES.

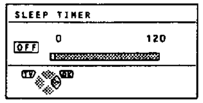
3. Display the Features menu.

Sleep Timer

You can set the TV to automatically turn off after a specified period of time.

Note:
- *The Sleep Timer does not turn off the Main power.*

1. Press ▼/▲ to choose SLEEP TIMER. Then press ▣.
The Sleep Timer menu appears.



2. Press ◀/▶ to choose a period of time.
You can set the period of time a maximum of 120 minutes in 10 minute increments.

3. **Press ▣.**
The Sleep Timer lamp lights if you set the Sleep Timer.

To display the remaining time:
Do step 1 to display the Sleep Timer menu, and press ▣ after checking the remaining time.

To cancel the Sleep Timer:
Do step 1 to display the Sleep Timer menu.
Press ◀, choose "OFF", and then press ▣.
- ***The Sleep Timer lamp goes out.***

Note:
- *One minute before the Sleep Timer turns off the TV, "GOOD NIGHT" appears.*

Blue Back

You can set the TV to automatically change to a blue screen and mute the sound when a week signal or no signal is received, or when there is no input from an external device.

1. Press ▼/▲ to choose BLUE BACK.

2. Press ◀/▶ to choose ON.
   - To cancel the Blue Back, choose OFF.

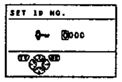
3. Press ▣.
This completes the setting.

Child Lock

You can lock some channels to prevent your children from watching them.

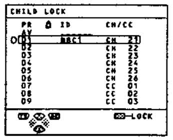
■ To set the CHILD LOCK

1. Press ▼/▲ to choose CHILD LOCK. Then press 0 (number 0).
The Set ID No. menu appears.



2. Enter the ID number.
   1. Press ▼/▲ to choose a number.
   2. Press ◀/▶ to move the cursor.

3. Press ▣.
The Child Lock menu appears.



PR	ID	CH/CC
AV		
01	BBC1	CH 21
02		CH 22
03		CH 23
04		CH 24
05		CH 25
06		CH 26
07		CC 01
08		CC 02
09		CC 03

ENGLISH

4 **Press ▼/▲ to choose a channel, then press the blue button.**

The 🔒 (locked) mark appears, and the chosen channel is locked.

- To cancel the Child Lock, press the blue button again.
- Repeat step 4 to lock all channels which you want to lock.

5 **Press** ☐**.**

This completes the setting.

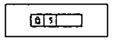
Notes:

- *You cannot choose a locked channel using the ▼/▲ buttons on the remote control nor the P ∨/∧ buttons on the TV.*
- *Even if a locked channel is displayed, the programme cannot be watched.*

■ To watch a locked channel

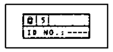
1 **Press the number buttons to choose a locked channel.**

The 🔒 (locked) mark appears.



2 **Press** ☐ **(Information).**

The ID No. input menu appears.



3 **Press the number buttons to enter the ID number.**

The locked channel can now be watched.

If you forget the ID number:
Do steps 1 of "To set the Child Lock". After confirming the ID number, press ☐ to exit the menu.

Decoder (EXT-2)

When you connect a Decoder to a T-V LINK compatible VCR, you have to set the Decoder (EXT-2) to ON for watching scrambled channels.

1 **Choose a scrambled channel.**

The scrambled picture appears.

- *If the picture is unscrambled you don't need to change the Decoder (EXT-2) setting.*

2 **Press** ☐ **to display MENU. Then Press ▼/▲ to choose FEATURES.**

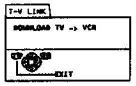
3 **Press** ☐ **to display the Features.**

4 **Press ▼/▲ to choose DECODER (EXT-2).**

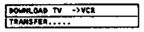
5 **Press ◀/▶ to choose ON.**

6 **Press** ☐**.**

The T-V LINK menu appears.


T-V LINK
DOWNLOAD TV -> VCR
EXIT

7 **Press** ☐**.**


DOWNLOAD TV ->VCR
TRANSFER......

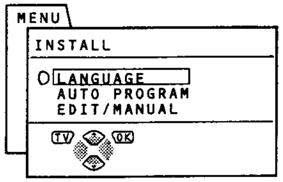
The translation of channel data from the TV to the VCR begins. The display disappears once the data transmission ends.

- Repeat steps 1 to 7 watch a different channel using the decoder.

Note:

- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's manual.*

Install


MENU
INSTALL
LANGUAGE
AUTO PROGRAM
EDIT/MANUAL
TV
OK

1 **Display MENU.**

2 **Choose INSTALL.**

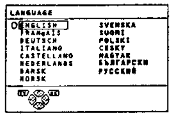
3 **Display the Install menu.**

Language

You can choose one of 15 languages for the on-screen display.

1 **Press ▼/▲ to choose LANGUAGE.**

The Language menu appears.


LANGUAGE
ENGLISH
FRANÇAIS
DEUTSCH
ITALIANO
CASTELLANO
NEDERLANDS
DANSK
NORSK
SVENSKA
SUOMI
POLSKI
CESKY
MAGYAR
БЪЛГАРСКИ
РУССКИЙ

2 **Press ◀/▶/▼/▲ to choose a language.**

3 **Press** ☐**.**

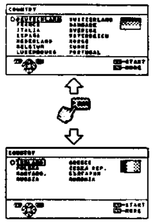
This completes the setting.

Auto Program

You can automatically allocate up to 99 stations to the PR channels (PR 1 to PR 99) on this TV.

1 **Press ▼/▲ to choose AUTO PROGRAM, then press** ☐**.**

The Country menu appears.


COUNTRY
ITALIA
ESPAÑA
SWITZERLAND
DANMARK
SUOMI
PORTUGAL
START
COUNTRY
GREECE
START

Note:

- *There are two country menus. Whenever you press* ☐*, the country menus are switched.*

2 **Press ◀/▶/▼/▲ to choose your country.**

3 **Press the blue button.**

The Auto Programming starts. The Edit menu appears after the PR channels have been set.

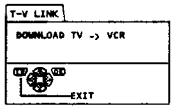
If the ACI menu is displayed:
If your Cable TV station supports ACI (Automatic Channel Installation), the ACI menu is displayed. Please operate it according to "ACI Operation" procedures at the bottom of page 4. The channel is set quickly to the PR channel according to the order decided for all the channels.

Notes:

- *If this TV identifies a broadcast station name, that station ID is also automatically registered in a PR channel.*
- *To cancel the Auto programming, press* ☐*.*
- *If a station you want to view is not set to a PR channel, manually set it using the Edit menu. (See page 28.)*
- *To edit PR channels or set a station to PR 0 (AV) channel, refer to page 28 "Edit/Manual".*

4 **Press** ☐**.**

This completes the procedure and the T-V LINK menu appears.


T-V LINK
DOWNLOAD TV -> VCR
EXIT

When a T-V LINK compatible VCR is connected:
You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page 30.

When a T-V LINK compatible VCR is not connected:
You cannot transmit the latest PR channel data from the TV to the VCR.
Press ☐ to exit the T-V LINK menu.

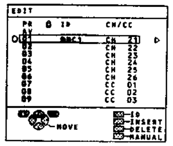
Edit/Manual

You can change PR channel settings.

- You can delete an unwanted station from a PR channel,
- You can change the PR channel number of a station,
- You can add station IDs to PR channels,
- You can insert a new station to a PR channel, or
- You can manually set the desired station to a PR channel.

1 Press ▼/▲ to choose EDIT/MANUAL.

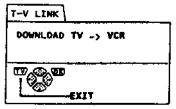
The Edit menu appears.



2 Use any of the following procedures to edit the PR channel setting.

3 Press OK.

This completes the procedure and the T-V LINK menu appears.

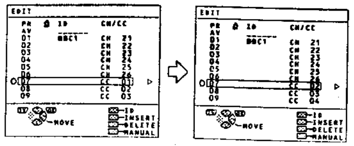


When a T-V LINK compatible VCR is connected:
You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page 30.

When a T-V LINK compatible VCR is not connected:
You cannot transmit the latest PR channel data from the TV to the VCR. Press TV to exit the T-V LINK menu.

■ Deleting a station

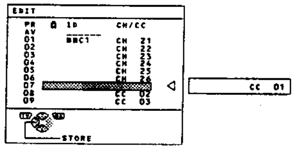
1 Press ▼/▲ to choose the station you want to delete then press the yellow button.



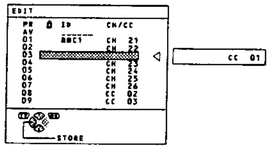
Note:
- *If you delete a station from a PR channel, the following stations PR channel number move back one.*

■ Changing the PR channel number

1 Press ▼/▲ to choose the station, then press ▶.



2 Press ▼/▲ to move the station to the desired PR channel number.

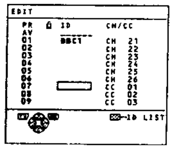


- To cancel the operation, press ■ (Information).

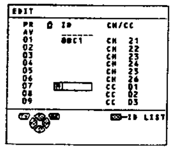
3 Press ◀.

■ Adding a Station ID

1 Press ▼/▲ to choose the station, then press the red button.

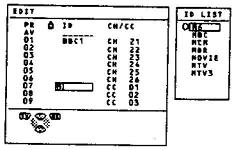


2 Press ▼/▲ to choose the first character of the desired Station ID.



3 Press the blue button.

The ID List menu appears.



4 Press ▼/▲ to choose the station ID.

- To cancel the operation, press ■ (Information).

5 Press OK.

Adding a Station ID name of your own:
Do the following procedure in place of "Adding a Station ID".

1 Press ▼/▲ to choose the station, then press the red button.

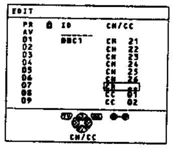
2 Press ▼/▲ to choose a character, then press ◀/▶ to move the cursor.

3 Repeat step 2 to complete the Station ID, then press OK.

■ Inserting a new station

If you want to insert French stations to the PR channels:
You have to set the Country setting to FRANCE before inserting French stations to the PR channels.
If your Country setting is not FRANCE, change the Country setting to FRANCE. To change the Country Setting, refer to "Changing the Country Setting" on page 30.

1 Press ▼/▲ to choose the PR channel, then press the green button.



2 Press ▼/▲ to choose CC or CH

CH: to insert the terrestrial broadcast stations
CC: to insert the cable TV stations

To set a French station:
Choose CH1, CH2, CC1 or CC2.

- To cancel the operation, press ■ (Information)

Note:
- *For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel Table on page 36.*

3 Press the number buttons to enter the channel number.

The channel number blinks. When the channel setting is complete, the blinking goes off.

- To enter a one-digit channel number, enter the number and press OK.

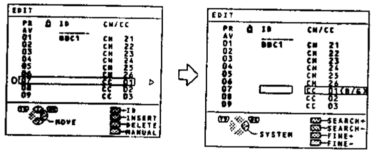
Note:
- *When you insert a station, the station preset to PR99 is deleted.*

■ Setting a station to a PR channel manually

If you want to set French stations to the PR channels:
You have to set the Country setting to FRANCE before setting French stations to the PR channels.
If your Country setting is not FRANCE, change the Country setting to FRANCE. To change the Country Setting, refer to "Changing the Country Setting" on page 30.

1 Press ▼/▲ to choose a PR channel number, then press the blue button.

Note:
- *PR channel number "AV" appears on the screen as PR 0 channel. We recommend setting this PR channel to the VCR RF channel from a VCR connected to the aerial socket.*



2 Press the green or red button to search for a station.

Scanning stops when the TV finds a station.
To continue searching, press the red or green button again and repeat until the station you want appears.

CH: The terrestrial broadcast stations
CC: The cable TV stations

If reception is poor:
Press the blue or yellow button to fine-tune the station.

If reception is not correct:
Press ▶ to choose the correct broadcast system.

Note:
- *For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel Table on page 36.*

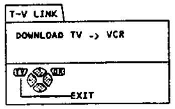
3 Press OK.

ENGLISH

■ Downloading the PR channel data to the VCR

You can transmit the latest PR channel data from the TV to the VCR with T-V LINK.

1 **Make sure that the T-V LINK menu is displayed.**



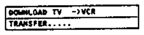
T-V LINK

DOWNLOAD TV -> VCR

Notes:
- *You cannot display the T-V LINK menu directly by choosing it from a menu.*
- *You cannot transmit the PR channel data to the VCR when a T-VLINK compatible VCR is not connected. Press ⓣ to exit the menu.*
- *For details about T-V LINK, refer to page 5.*

2 **Turn the VCR on.**

3 **Press ⓞ.**



DOWNLOAD TV ->VCR

TRANSFER.....

The data transmission begins.
The display disappears once the data transmission ends.

Note:
- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's manual.*

■ Changing the Country Setting

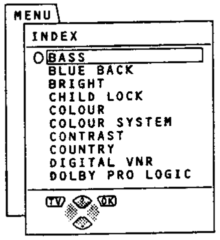
1 **Display the Install menu.**
- To return to the Install menu from the Edit menu, press ▬mation).

2 **Press ▼/▲ to choose AUTO PROGRAM. Then press ⓞ.**
The Country menu appears.

3 **Press ◄/►/▼/▲ to choose a Country. This completes the setting.**

4 **Press ⓣ to exit the MENU.**
- To return to the Install menu, press ▬ (information).

Index



MENU

INDEX

○ BASS
BLUE BACK
BRIGHT
CHILD LOCK
COLOUR
COLOUR SYSTEM
CONTRAST
COUNTRY
DIGITAL VNR
DOLBY PRO LOGIC

1 **Display MENU.**

2 **Choose INDEX.**

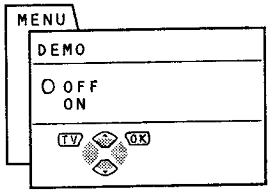
3 **Display the Index menu.**

The functions in each menu are listed in the Index menu. The required function can be found in the Index menu and the operating menu for that function can be entered with one touch.

1 **Press ▼/▲ to choose a function.**
If the desired function is not displayed, press ▼/▲ until it appears.

2 **Press ⓞ.**
The chosen function's operating menu will be displayed.
- **To return to the MENU (Main Menu), press ▬ (Information).**

Demo



MENU

DEMO

○ OFF
ON

1 **Display MENU.**

2 **Choose DEMO.**

3 **Display the Demo menu.**

You can see the main features of your TV by using the Demo function.

When the Demo is set to ON:
Each time the TV is turned on, the demonstration starts automatically. If you do not want that to happen, set the Demo setting to OFF.

1 **Press ▼/▲ to choose ON.**
- To cancel the Demo function, choose OFF.

2 **Press ⓞ.**
The demonstration will start.

To stop the demonstration, press one of the buttons on the remote control.

Additional Preparation

Notes:
- *Use headphones with a stereo mini jack (dia. 3.5 mm).*
- *When using headphones, follow the procedure "Headphone" on page 21.*
- *For further details, refer to manuals provided with the devices you are connecting.*
- *Connecting cables are not supplied.*
- *This TV set has external device connectors to which you can connect external devices. However, there are some differences in functions among them. Consult the table below before making connections.*

■ External terminals specifications

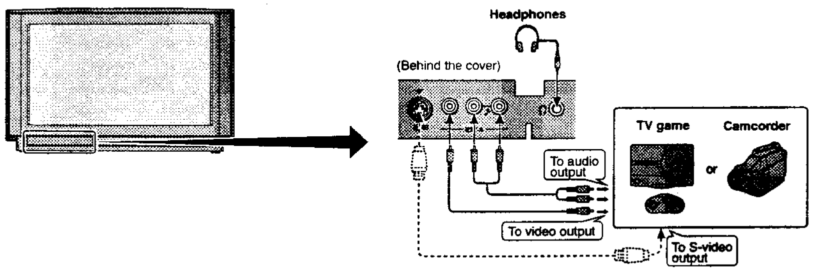
	EXT-1	EXT-2	EXT-3	EXT-4 (front)
VIDEO IN	√	√*1	√*1	√*1
VIDEO OUT	√*2	√*3	–	–
S-VIDEO IN	–	√*1	√*1	√*1
S-VIDEO OUT	–	–	–	–
RGB IN	√	–	–	–
AUDIO-L IN	√	√	√	√
AUDIO-R IN	√	√	√	√
AUDIO-L OUT	√*2	√*3	–	–
AUDIO-R OUT	√*2	√*3	–	–
T-V LINK	–	√	–	–
Others	• Automatic detection and switching of input mode. • Automatic detection and switching of ZOOM mode.			

*1 Choose VIDEO or S-VIDEO mode from the EXT Setting menu. For details, see page 24 "EXT Setting".

*2 Only the TV broadcast is output. Even when a SUB-picture is displayed, the output TV broadcast PR channel does not change. However, when another channel is being watched in the SUB-picture, If the Swap function is used the output channel is changed.

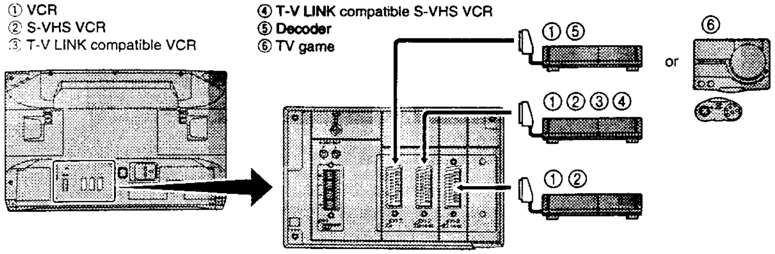
*3 TV broadcasts or inputs from other EXT terminals can be output. For details, see page 24 "Dubbing".

■ Front panel connections



■ Rear panel connections

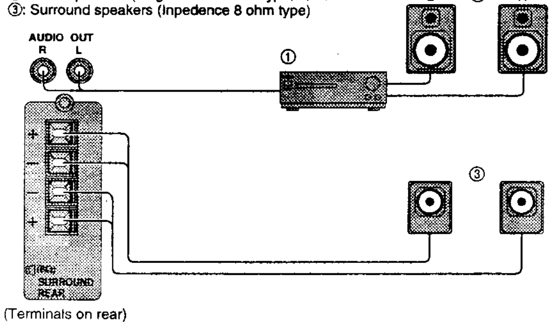
① VCR
② S-VHS VCR
③ T-V LINK compatible VCR
④ T-V LINK compatible S-VHS VCR
⑤ Decoder
⑥ TV game



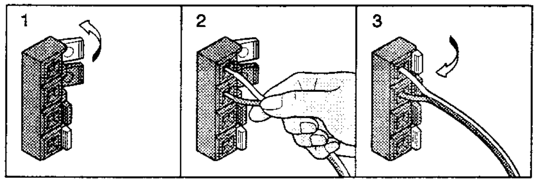
Connecting Speakers

Caution:
Do the following before connecting,
- *Turn the power of all the equipment off.*
- *Set the amplifier volume to low.*
- *Read the manuals provided with the amplifiers and speakers.*

①: Stereo amplifier
②: Front speakers (Magnetic-shielded Type, L, R)
③: Surround speakers (Inpedence 8 ohm type)

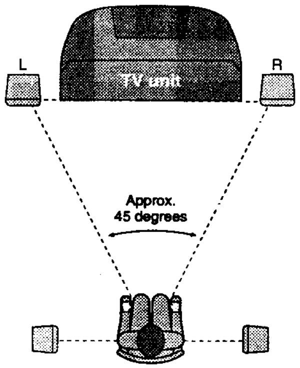


(Terminals on rear)



Notes:
- *Correctly connect the ⊕ speaker terminal to the ⊕ TV terminal, and the ⊖ speaker terminal to the ⊖ TV terminal.*
- *Though there is no L (left) and R (right) distinction for Surround Speakers, make sure that the ⊕ and ⊖ terminals on the speakers and the TV are correctly connected to the corresponding terminals as shown in the figure.*
- *Use the AUDIO OUT terminals for connecting an audio system. The volume output is controlled via the TV and The AUDIO OUT terminal output is not interrupted by headphone connection.*
- *When you want to use your Dolby Surround decoder, connect it to the AUDIO OUT terminals. Then set this TV's surround function to off.*
- *Use impedence 8 ohm type speakers for surround speakers ③.*
- *Use magnetic-shielded speakers for front speakers ② to prevent interference by the TV.*
- *For optimal effect, install the speakers ③ at least 1 metre above the heads of seated viewers.*

■ Positioning the speakers

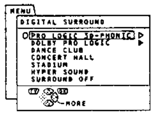


Connecting Surround Speakers

You can enjoy the Dolby Pro Logic surround sound with two additional surround speakers.

Note:
- *You can connect both your audio system and additional surround speakers. For details, refer to page 35.*

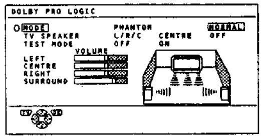
1. **Connect the surround speakers ③ to the SURROUND REAR terminal.**
2. **Turn the TV on.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose DIGITAL SURROUND and then press OK.**
   The Digital Surround menu appears.



Note:
- *If the Digital Surround does not appear in the MENU, disconnect the headphones from the TV.*

5. **Press ▼/▲ to choose DOLBY PRO LOGIC and then press ▶.**

The Dolby Pro Logic menu appears.



6. **Press ▼/▲ to choose MODE and ◀/▶ to choose NORMAL.**

Note:
- *If you do not want to use the center speaker on the TV, choose PHANTOM instead of NORMAL.*

7. **Press ▼/▲ to choose TV SPEAKER and ◀/▶ to choose L/R/C.**

Note:
- *When you set the MODE to PHANTOM, choose L/R.*

8. **Press ▼/▲ to choose TEST MODE and press ◀/▶ to choose ON.**
   Test signals are output alternately from the speakers.
9. **Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position.**
   LEFT, RIGHT:
   Front speaker L, R
   CENTRE:
   Centre speaker
   SURROUND:
   Surround speakers

Note:
- ***When the Phantom mode is set, the volume of the Centre speaker cannot be adjusted.***

10. **Press OK.**
    This completes the setting.

Note:
- *The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV speaker setting in the Pro Logic 3D-Phonic menu and Sound Setting menu.*
  If you change the one of them, the others will be changed automatically.

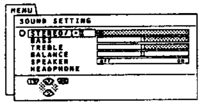
Connecting an Audio System

You can use your audio system as front speakers instead of the front speakers on the TV.

Note:
- *You can connect both your audio system and additional surround speakers. For details, refer to page 35.*

1. **Connect your stereo amplifier ① to the AUDIO OUT terminals.**
2. **Turn the TV on and set the volume to the lowest setting.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose SOUND SETTING. Then press OK.**

The Sound Setting menu appears.



Note:
- *When "SPEAKER" does not appear in the Sound Setting menu, press TV to exit the menu and press 3D twice to display "SURROUND OFF". Then, repeat this procedure from step 3.*

5. **Press ▼/▲ to choose SPEAKER and press ◀/▶ to choose OFF. Then press OK.**

To output sound from the TV speakers:
Set SPEAKER to ON.

6. **Press OK.**
   This completes the settings.
7. **Turn the stereo amplifier on and re-adjust the volume setting, then press ◀/▶ to adjust the volume.**

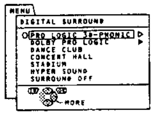
Notes:
- *Setting the volume of the stereo amplifier too high may damage the speakers.*
- *The SPEAKER setting in the Sound Setting menu is linked to the other TV Speaker setting in the Pro Logic 3D-Phonic menu and the Dolby Pro Logic menu.*
  If you change the one of them, the others will be changed automatically.
- *You can use the TV speakers as the centre speakers when you enjoy the Dolby Pro Logic 3D-Phonic surround sound. This method enhances spoken dialogue. For details, refer to page 22.*

Connecting both Your Audio System and Surround Speakers

When you connect both your audio system and the additional surround speakers, you can enjoy the Dolby Pro Logic Surround sound with four external speakers and also you can use the TV speakers as the centre speakers.

When you do not use the Dolby Pro Logic or Dolby Pro Logic 3D-Phonic function, you can use your audio system as front speakers instead of the front speakers on the TV.

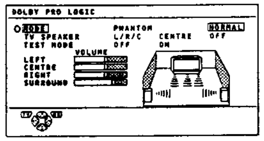
1. **Connect your stereo amplifier ① to the AUDIO OUT terminals and connect surround speakers ③ to the SURROUND REAR terminal.**
2. **Turn the TV on and set the volume to the normal setting.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose DIGITAL SURROUND and then press OK.**
   The Digital Surround menu appears.



Note:
- *If Digital Surround does not appear in the MENU, disconnect the headphones from the TV.*

5. **Press ▼/▲ to choose DOLBY PRO LOGIC and then press ▶.**

The DOLBY PRO LOGIC menu appears.



6. **Press ▼/▲ to choose an item and ◀/▶ to change the following settings.**
   Set MODE to NORMAL.
   Set TV SPEAKER to CENTRE.
   If you do not want to use the TV speakers as the centre speakers:
   Set MODE to PHANTOM and TV SPEAKER to OFF.
   PHANTOM mode omits the centre speaker.
7. **Turn the stereo amplifier on and re-adjust the volume setting.**

Note:
- *Setting the volume of the stereo amplifier too high may damage the speakers.*

8. **Press ▼/▲ to choose TEST MODE and ◀/▶ to choose ON.**
   Test signals are output alternately from the speakers.

Note:
- *If the test signal is too faint, adjust the volume of the stereo amplifier. However, setting the volume too high may damage the speakers.*

9. **Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position (the location of the viewer as described by the diagram on page 33).**
   LEFT, RIGHT:
   Front Speaker L, R
   CENTRE:
   Centre Speaker
   SURROUND:
   Surround Speakers

Notes:
- *When the Phantom mode is set, the volume of the Centre speaker cannot be adjusted.*
- *If the volume of the speakers does not match after adjusting the volume levels, adjust the volume of the stereo amplifier.*

10. **Press OK.**
    This completes the settings.

Note:
- *The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV Speaker setting in the Pro Logic 3D-Phonic menu and the Sound Setting menu.*
  If you change the one of them, the others will be changed automatically.

Channel Table

- The following table shows the relationship between the displayed CH/CC channel number and the actual channel number.
- The actual channel numbers for the "CC" channel numbers from CC110 to CC161 differ depending on the cable TV station. Check which actual channel numbers correspond to which "CC" channels while referring to the broadcast frequencies which are indicated in the channel tables of each cable TV station. If you can not find the broadcast frequency for a channel, contact the cable TV station.

CH	Channel
CH 02 / CH 202	E2, R1
CH 03 / CH 203	E3, ITALY A
CH 04 / CH 204	E4, ITALY B, R2
CH 05 / CH 205	E5, ITALY D, R6
CH 06 / CH 206	E6, ITALY E, R7
CH 07 / CH 207	E7, ITALY F, R8
CH 08 / CH 208	E8, R9
CH 09 / CH 209	E9, ITALY G
CH 10 / CH 210	E10, ITALY H, R10
CH 11 / CH 211	E11, ITALY H+1, R11
CH 12 / CH 212	E12, ITALY H+2, R12
CH 21 / CH 221	E21, R21
CH 22 / CH 222	E22, R22
CH 23 / CH 223	E23, R23
CH 24 / CH 224	E24, R24
CH 25 / CH 225	E25, R25
CH 26 / CH 226	E26, R26
CH 27 / CH 227	E27, R27
CH 28 / CH 228	E28, R28
CH 29 / CH 229	E29, R29
CH 30 / CH 230	E30, R30
CH 31 / CH 231	E31, R31
CH 32 / CH 232	E32, R32
CH 33 / CH 233	E33, R33
CH 34 / CH 234	E34, R34
CH 35 / CH 235	E35, R35
CH 36 / CH 236	E36, R36
CH 37 / CH 237	E37, R37
CH 38 / CH 238	E38, R38
CH 39 / CH 239	E39, R39

CH	Channel
CH 40 / CH 240	E40, R40
CH 41 / CH 241	E41, R41
CH 42 / CH 242	E42, R42
CH 43 / CH 243	E43, R43
CH 44 / CH 244	E44, R44
CH 45 / CH 245	E45, R45
CH 46 / CH 246	E46, R46
CH 47 / CH 247	E47, R47
CH 48 / CH 248	E48, R48
CH 49 / CH 249	E49, R49
CH 50 / CH 250	E50, R50
CH 51 / CH 251	E51, R51
CH 52 / CH 252	E52, R52
CH 53 / CH 253	E53, R53
CH 54 / CH 254	E54, R54
CH 55 / CH 255	E55, R55
CH 56 / CH 256	E56, R56
CH 57 / CH 257	E57, R57
CH 58 / CH 258	E58, R58
CH 59 / CH 259	E59, R59
CH 60 / CH 260	E60, R60
CH 61 / CH 261	E61, R61
CH 62 / CH 262	E62, R62
CH 63 / CH 263	E63, R63
CH 64 / CH 264	E64, R64
CH 65 / CH 265	E65, R65
CH 66 / CH 266	E66, R66
CH 67 / CH 267	E67, R67
CH 68 / CH 268	E68, R68
CH 69 / CH 269	E69, R69

CC	Channel
CC 01 / CC 201	S1
CC 02 / CC 202	S2
CC 03 / CC 203	S3
CC 04 / CC 204	S4
CC 05 / CC 205	S5
CC 06 / CC 206	S6
CC 07 / CC 207	S7
CC 08 / CC 208	S8
CC 09 / CC 209	S9
CC 10 / CC 210	S10
CC 11 / CC 211	S11
CC 12 / CC 212	S12
CC 13 / CC 213	S13
CC 14 / CC 214	S14
CC 15 / CC 215	S15
CC 16 / CC 216	S16
CC 17 / CC 217	S17
CC 18 / CC 218	S18
CC 19 / CC 219	S19
CC 20 / CC 220	S20
CC 21 / CC 221	S21
CC 22 / CC 222	S22
CC 23 / CC 223	S23
CC 24 / CC 224	S24
CC 25 / CC 225	S25
CC 26 / CC 226	S26
CC 27 / CC 227	S27
CC 28 / CC 228	S28
CC 29 / CC 229	S29
CC 30 / CC 230	S30

CC	Channel
CC 31 / CC 231	S31
CC 32 / CC 232	S32
CC 33 / CC 233	S33
CC 34 / CC 234	S34
CC 35 / CC 235	S35
CC 36 / CC 236	S36
CC 37 / CC 237	S37
CC 38 / CC 238	S38
CC 39 / CC 239	S39
CC 40 / CC 240	S40
CC 41 / CC 241	S41
CC 75 / CC 275	X
CC 76 / CC 276	Y, R3
CC 77 / CC 277	Z, ITALY C, R4
CC 78 / CC 278	Z+1, R5
CC 79 / CC 279	Z+2

CH	Channel
CH 102	F2
CH 103	F3
CH 104	F4
CH 105	F5
CH 106	F6
CH 107	F7
CH 108	F8
CH 109	F9
CH 110	F10
CH 121	F21
CH 122	F22
CH 123	F23
CH 124	F24
CH 125	F25
CH 126	F26
CH 127	F27
CH 128	F28
CH 129	F29
CH 130	F30
CH 131	F31
CH 132	F32
CH 133	F33
CH 134	F34
CH 135	F35
CH 136	F36
CH 137	F37
CH 138	F38
CH 139	F39
CH 140	F40

CH	Channel
CH 141	F41
CH 142	F42
CH 143	F43
CH 144	F44
CH 145	F45
CH 146	F46
CH 147	F47
CH 148	F48
CH 149	F49
CH 150	F50
CH 151	F51
CH 152	F52
CH 153	F53
CH 154	F54
CH 155	F55
CH 156	F56
CH 157	F57
CH 158	F58
CH 159	F59
CH 160	F60
CH 161	F61
CH 162	F62
CH 163	F63
CH 164	F64
CH 165	F65
CH 166	F66
CH 167	F67
CH 168	F68
CH 169	F69

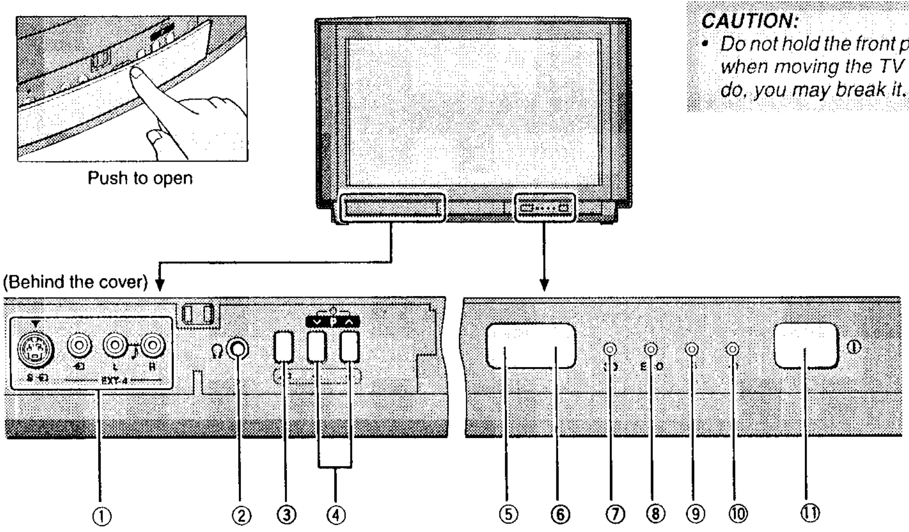
CC	Frequency (MHz)
CC 110	116 - 124
CC 111	124 - 132
CC 112	132 - 140
CC 113	140 - 148
CC 114	148 - 156
CC 115	156 - 164
CC 116	164 - 172
CC 123	220 - 228
CC 124	228 - 236
CC 125	236 - 244
CC 126	244 - 252
CC 127	252 - 260
CC 128	260 - 268
CC 129	268 - 276
CC 130	276 - 284
CC 131	284 - 292
CC 132	292 - 300
CC 133	300 - 306
CC 141	306 - 311
CC 142	311 - 319
CC 143	319 - 327
CC 144	327 - 335
CC 145	335 - 343
CC 146	343 - 351
CC 147	351 - 359
CC 148	359 - 367
CC 149	367 - 375
CC 150	375 - 383

CC	Frequency (MHz)
CC 151	383 - 391
CC 152	391 - 399
CC 153	399 - 407
CC 154	407 - 415
CC 155	415 - 423
CC 156	423 - 431
CC 157	431 - 439
CC 158	439 - 447
CC 159	447 - 455
CC 160	455 - 463
CC 161	463 - 469

TV Buttons and Parts

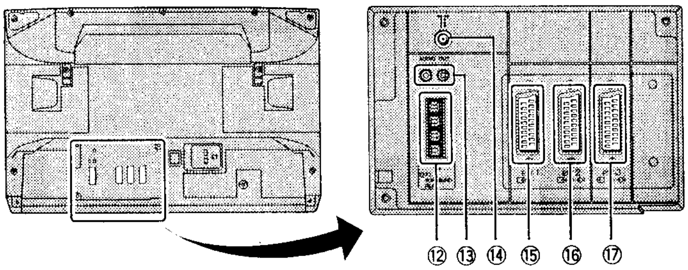
Front Panel

CAUTION:
- *Do not hold the front panel cover when moving the TV set, if you do, you may break it.*



①	EXT-4 terminals	pages 24, 32
②	Headphone jack (mini jack)	pages 21, 23, 32
③	⊿ (Volume) button	page 7
④	P ∨/∧ buttons / ⊿ –/+ buttons	page 7
⑤	Remote control sensor	
⑥	ECO sensor	
⑦	3D lamp	pages 10, 21, 23
⑧	ECO lamp	page 17
⑨	Sleep timer lamp	page 25
⑩	Power lamp	pages 3, 6
⑪	Main power button	pages 3, 6

Rear Panel



⑫	SURROUND REAR terminal	page 33
⑬	AUDIO OUT terminal	page 33
⑭	Aerial socket	page 2
⑮	EXT-1 terminal	pages 2, 24, 32
⑯	EXT-2 terminal	pages 2, 5, 24, 32
⑰	EXT-3 terminal	pages 24, 32

Troubleshooting

- If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

IMPORTANT

- Review all instructions in this manual

	Problem	Action
■ GENERAL	The TV cannot be turned on.	• Insert the plug in an AC socket. • Turn the main power on. (See **page 6.**)
	No picture or sound.	• Check aerial connections. (See **page 2.**) • Choose the correct input mode. (**See page** 7.) • Choose the correct colour system **manually. (See page** 18.)
	The TV shuts off automatically.	• Did you set the Sleep Timer? (**See page 25.**)
	Inoperable remote control.	• Replace the batteries. (See page 2.) • Insert the batteries correctly. (See page 2.) • Use the remote control within about 7 metres of the TV.
	MENU can not be displayed.	• Are you watching the Teletext screen? None of the Menu operations are possible when viewing a teletext programme. Perform the Menu operation in the TV mode.
■ PICTURE	Poor colour.	• Adjust COLOUR and BRIGHT. (See page 17.) • Choose the correct colour system manually. (See page 18.)
	The ZOOM mode suddenly changes.	• The AUTO mode is working. (See page 9.)
	The picture is tilted .	• Correct the tilted picture. (See page 19.)
	Unnatural colours appear	• Reduce the unnatural colouring. (See page 19.)
	The SUB-picture image is disordered.	• If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered.
	The top and bottom of the MAIN-picture or SUB-picture are missing.	• If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
	The SUB-picture display suddenly disappears.	• If an external device is operated, the SUB-picture may disappear. If this happens, press ▨e more and redisplay the SUB-picture.
	The same image is displayed in both the MAIN-picture and SUB-picture.	• If the ⇄ (swap) button is pressed when the image from the external decoder is displayed in the MAIN-picture, the same image is displayed in both the MAIN-picture and SUB picture. Press ⇄wap) again.
	Lines or streaks in picture (interference).	• Move the components apart until the interference is eliminated. • Reposition the aerial.
	Spots (crosstalk).	• Reposition the aerial. • Replace with an aerial with better directionality.
	Double pictures (ghosts).	• Reposition the aerial. • Replace with an aerial with better directionality.
	Snowy pictures (noise).	• Check aerial connections. • Redirect the aerial. • Replace or repair the aerial.

	Problem	Action
■ SOUND	The screen turns blue.	• Is the Blue Back function set to ON? (See page 25.)
	No sound from the TV's speakers.	• Disconnect the headphones. • If you want to have sound come from both the TV's speaker and headphones. See page 21. • Set SPEAKER to ON. (See page 20.)
	The headphone volume level can not be adjusted.	• It cannot be adjusted with the ◀/▶ buttons or ◿ (volume) –/+ buttons. Adjust it with the VOLUME function in the HEADPHONE menu. (See page 21.)
	The sound from the TV does not stop even if the headphones are connected.	• TV SPEAKER in the HEADPHONE menu is set to ON. Change the setting to OFF. (See page 21.)
	No stereo sound.	• Change STEREO/I•II to ꝏ mode. (See page 20.) • Is TV SPEAKER on the Pro Logic 3D-Phonic menu or Dolby Pro Logic menu set to CENTRE? Change the TV SPEAKER setting to L/R/C. (See pages 22 and 34.) • When the SUB-picture is in TV mode, the SUB-picture sound is mono only.
	No "SUB-I" or "SUB-II" sound in a multi-sound broadcast.	• Change STEREO/I•II to the correct mode. (See page 20.) • The multi-sound function does not work for the SUB-picture sound.
	Surround function does not function properly.	• Dolby Pro Logic Surround and Pro Logic 3D-Phonic work properly only with Dolby Surround encoded programmes. • Functions other than Hyper Sound and the Headphone surround functions work properly only with stereo programmes. • Hyper Sound works properly only with mono programmes. • None of the surround sound functions work for the SUB-picture sound.
	The Power Bass function does not work.	• Are you listening to the SUB-picture sound? The Power Bass function does not work for the SUB-picture sound.
■ TELETEXT	No teletext reception.	• Tune to a channel that has teletext. (See page 14.) • Videotaping teletext is not recommended as it may not record correctly.
	The current time is not displayed.	• Tune to a channel that has teletext. (See page 14.)

The following are normal and are NOT malfunctions:

- When touching the picture tube surface, you might feel a slight charge of static electricity. This is because the picture tube contains static electricity; it does not affect the human body.
- The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still, bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all picture tubes, and as the bright image disappears, the colour also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the power cord to AC socket and turn on the main power again.

Specifications

Model Item	AV-32WFP1EU	
TV RF systems	*CCIR B/G, I, D/K, L*	
Colour systems	*PAL, SECAM (NTSC 3.58 / 4.43 MHz only in EXT modes)*	
Channels and frequencies	*E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, A-H, H+1, H+2, F2-F10, F21-F69, R1-R12, R21-R69* *• French cable TV channel of broadcast frequenciees 116 – 172 MHz and 220 – 469 MHz*	
Sound-multiplex systems	*A2 (B/G, D/K) / NICAM (B/G, D/K, L) system*	
Teletext systems	*Fastext (United Kingdom system) / TOP (German system) / WST (standard system)*	
Power requirements	*AC 220 – 240 V, 50 Hz*	
Power consumption	*Maximum 290 W, Average 164 W, Standby 1.2 W*	
Picture tube size	*Visible area 76 cm (measured diagonally)*	
Audio output	*Rated Power output: 20 W + 20 W + 5 W*	
Speakers	*10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm) oval × 1*	
External input / output	*EXT-1, EXT-2, EXT-3*	*21-pin Euroconnector (SCART)*
	EXT-4	*VIDEO IN (RCA)* *AUDIO L / R IN (RCA)* *S-VIDEO IN (Mini Din 4-pin)*
	AUDIO OUT	*(Variable out (0-1 Vrms), low impedance)* *FRONT L/R output (RCA)*
	SURROUND REAR	*Speaker terminals for external surround speakers (Impedance 8 ohm) only.* *Rated power output: 7.5 W + 7.5W*
	Headphone jack (stereo mini jack, dia. 3.5 mm)	
Dimensions (W × H × D)	*855 mm × 550 mm × 568 mm*	
Weight	*59.5 kg*	
Accessories	*Remote control unit RM-C787 × 1* *AAA (R03) dry cell battery × 2*	

Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

JVC

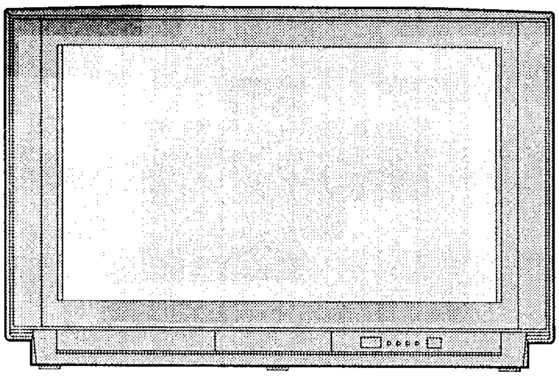
VICTOR COMPANY OF JAPAN, LIMITED

JVC

COLOUR TELEVISION
AV-32WFP1EK

Natural Vision

T-V LINK



INSTRUCTIONS

CONTENTS

Safety Precautions....2
Preparation....4
T-V LINK Functions....7
Basic Operation....8
Remote Control Buttons and Functions....10
Menu Operation....18
Picture Setting....19
Picture Features....20
Sound Setting....22
Digital Surround....23
Headphone Surround....25
EXT Setting....26
Features....27
Install....29
Index....33
Demo....33
Additional Preparation....34
Connecting Speakers....35
Channel Table....38
TV Buttons and Parts....39
Troubleshooting....40
Specifications....42

plain English approved
by the word centre

Thank you for buying this JVC colour television.
To make sure your fully understand how to use your new TV, please read this manual thoroughly before you begin.

Safety Precautions

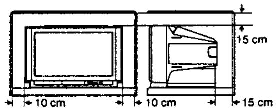
Warning

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Caution

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- Avoid improper installation and never position the unit where good ventilation is unattainable.
  When installing this television, distance recommendations must be maintained between the floor and wall, as well as instalment in a tightly enclosed area or piece of furniture. Please adhere to the minimum distance guidelines shown for safe operation.



- Do not allow objects or liquid into the cabinet openings.
- In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

- When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

- Do not hold the front panel door when moving the TV, if you do you may break it.

Warning

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adaptor or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If a new mains plug has to be fitted, then follow the instruction given below:

IMPORTANT.

DO NOT make any connection to the larger terminal which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:
Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

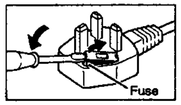
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse only a correctly rated approved type should be used and be sure to re-fit the fuse cover.

IF IN DOUBT — CONSULT A COMPETENT ELECTRICIAN.

How To Replace The Fuse
Open the fuse compartment with a blade screwdriver, and replace the fuse.



Guidelines for Safe Operation

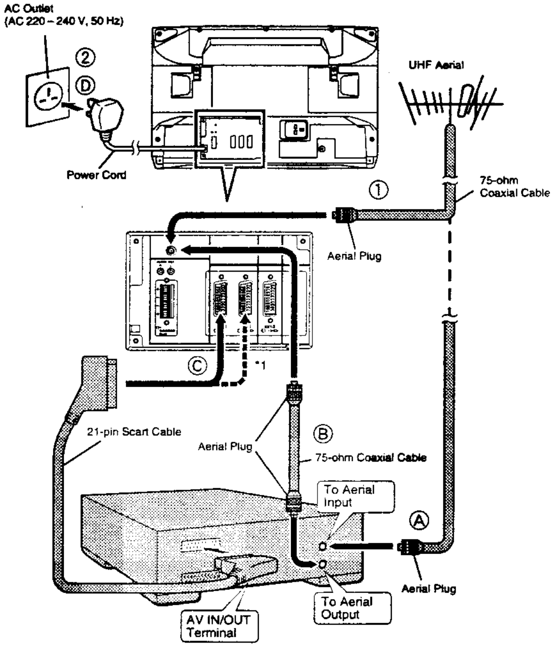
This equipment has been designed and manufactured to comply with international safety standards. However, as with any electrical appliance, care must be taken to ensure optimal results and operational safety.

- ■ Before attempting to use this equipment, read the operating instructions thoroughly.
- ■ Ensure that all electrical connections (including the mains plug, extension leads, etc.) have been made in accordance with the manufacturer's instructions.
- ■ If ever in doubt about the installation, operation or safety of this equipment, consult your dealer.
- ■ Handle all glass panels or covers with care.
- ■ Never operate this equipment if it appears damaged or operates abnormally. Turn the power off, disconnect the main power plug and consult your dealer.
- ■ Never remove any affixed panels or covers. Doing so may result in electrical shock.
- ■ Never leave this equipment operating unattended unless otherwise specifically stated that it is designed to do so or in standby mode. Only use the designated power switch to turn off the power and ensure that all potential users are instructed how to do so. Make special arrangements for infirm or handicapped persons.
- ■ Never watch TV while operating a motor vehicle. It is illegal to watch TV while driving.
- ■ Never listen to headphones at high volume. Doing so may damage your hearing.
- ■ Never obstruct the ventilation of this equipment. Doing so may cause overheating and result in a malfunction or damage.
- ■ Never use makeshift stands or attempt to affix legs with wood screws. When using a manufacturer's approved stand or legs, use only the fixtures provided and follow the installation instructions.
- ■ Never allow this equipment to be exposed to rain or moisture.
- ■ Never allow anyone, especially children, to insert anything into an opening in the case. Doing so may result in a fatal electrical shock.
- ■ Never guess or take chances with electrical equipment of any kind. It is better to be safe than sorry.

Preparation

1 Connecting the Aerial and VCR

If connecting a VCR, follow Ⓐ → Ⓑ → Ⓒ → Ⓓ.
If not connecting a VCR, follow ① → ②.


AC Outlet
(AC 220 – 240 V, 50 Hz)
②
Ⓓ
Power Cord
UHF Aerial
①
75-ohm Coaxial Cable
Aerial Plug
Ⓒ
*1
21-pin Scart Cable
Aerial Plug
Ⓑ
75-ohm Coaxial Cable
To Aerial Input
Ⓐ
Aerial Plug
To Aerial Output
AV IN/OUT Terminal

Notes:

- *For further details, refer to the manuals provided with the devices to be connected.*
- *The connecting cables are not provided.*
- *A video can be viewed from the VCR without performing Ⓒ. For details, refer to the VCR manual.*
- *The ▨ shaded Items are not provided.*
- *To connect additional external devices, please refer to page 34.*
- *To connect external speakers or audio system, please refer to page 35.*

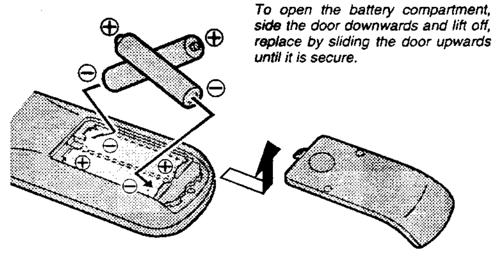
*1 This TV is T-V LINK compatible. To operate T-V LINK, a T-V LINK compatible VCR must be connected to the EXT-2 Terminal on the TV.

Notes:

- *For details about T-V LINK, refer to page 7.*
- *When a decoder is connected to a T-V LINK compatible VCR, set the Decoder (EXT-2) in the Features menu to ON. (See "Decoder (EXT-2)" on page 28.) Otherwise, you will not be able to view scrambled channels.*

2 Putting Batteries into the Remote Control

Use two AAA/R03 dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



To open the battery compartment, side the door downwards and lift off, replace by sliding the door upwards until it is secure.

Notes:

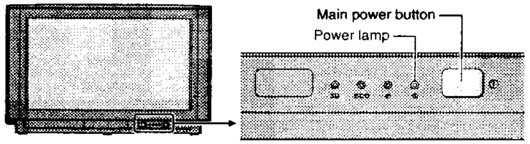
- *Follow the warnings printed on the batteries.*
- *Battery life is about six months to one year, depending on frequency of use.*
- *If the remote control doesn't work properly, replace the batteries.*
- *The batteries we supply are only for setting up and testing your TV, please replace them as soon as necessary.*
- *Always use good quality batteries.*

3 Initial Setting

You can automatically set up to 99 TV stations to PR channels PR 1 to PR 99 on this TV.

1 Press the Main power button.

The Power lamp lights red (power on), then green (TV on).

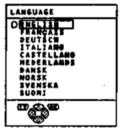

Main power button
Power lamp

■ **When the TV is first turned on,** it enters the initial **setting mode, and the JVC logo is displayed.**

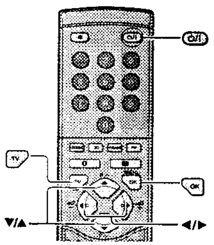
Notes:

- *If the power lamp stays red and does not change to green: Your TV is in the standby mode. Press (Ⓘ/Ⓘ) (Standby) on the remote control to turn your TV on.*
- *The TV only enters the initial setting mode the first time it is switched on, if you want to change the language and programme settings after this, please refer to page 29.*

2 Press ⓞⓚ.

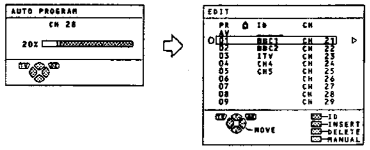

LANGUAGE
ENGLISH
FRANÇAIS
DEUTSCH
ITALIANO
CASTELLANO
NEDERLANDS
DANSK
NORSK
SVENSKA
SUOMI

3 Press ▼/▲ to choose ENGLISH.



4 Press ⓞⓚ.

The language is set for the on-screen display description, and the Auto Programming starts. The EDIT menu is displayed after the PR channels have been set.


AUTO PROGRAM
CH 28
20%
EDIT
PR ID CH
AV
01 BBC1 CH 21
02 BBC2 CH 22
03 ITV CH 23
04 CH4 CH 24
05 CH5 CH 25
06 CH 26
07 CH 27
08 CH 28
09 CH 29
MOVE
ID
INSERT
DELETE
MANUAL

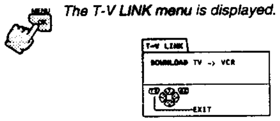
- ■ BBC1, BBC2, ITV, CHANNEL 4 and CHANNEL 5 are automatically set to PR 1 to PR 5.
- ■ If the TV doesn't receive one of these channels, that PR channel will not be set.
- ■ SKY 1 is set to PR 6, but no ID is set.

Notes:

- *In some areas TV reception is possible from more than one transmitter, e.g. different ITV regions. In this case each TV channel may be set twice. If this happens the first set of channels will have the stronger signal. If you want to delete the second set of channels, you will have to do it manually, see page 30.*
- *To receive SKY 1 a satellite tuner is needed, you must have the tuner set to SKY 1 before carrying out automatic tuning.*
- *To cancel the Auto programming, press ⓣⓥ.*
- *To edit PR channels or allocate a station to the PR0 (AV) channel, refer to page 30 "Edit/Manual".*
- *If a station you want to view is not set to a PR channel, manually set it using the Edit menu. (See page 30.)*

5 **Press OK to exit the Edit menu.**

The T-V LINK menu is displayed.

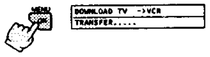


DOWNLOAD TV -> VCR

■ When a T-V LINK compatible VCR is connected

6 **Turn the VCR on.**

7 **Press OK.**



DOWNLOAD TV ->VCR
TRANSFER.....

■ When a T-V LINK compatible VCR is not connected

6 **Press TV.**

The menu disappears.
This completes the Initial Settings procedure.

The transmission of PR channel data from the TV to the VCR begins. The display disappears once the data transmission ends.
This completes the Initial Setting procedure.

Notes:
- *For details about T-V LINK, refer to page 7.*
- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's instruction manual.*

You have completed the set up.

If you have have had any problems setting up your new TV, please call the JVC Helpline on
0181-208-7654

Enjoy your new JVC TV!

T-V LINK Functions

■ When a T-V LINK compatible VCR is connected to the **EXT-2 Terminal on the TV, the procedures** for setting up the VCR and **viewing videos are simplified.**

■ T-V LINK **uses the following features:**

	Function	Features	Remarks
①	**Preset Download**	**Downloads the PR channel tuning information from the TV to the VCR.**	•Starts automatically when the initial setting is complete or whenever the Auto Program or Edit/Manual operations from the Install menu are performed. •This function can be operated via VCR operation.
②	**DIRECT REC (WYSIWYR)**	– What You See Is What You Record – You can record to VCR the images that you are currently viewing on TV by one-touch operation. For details, read the manual for your VCR.	•Operate via the VCR. (Operation via the TV is not possible.) "VCR IS RECORDING" is displayed.
③	TV Auto Power On	When the VCR starts playing, the TV automatically turns on and switches to the EXT-2 input mode.	•This function does not operate if your TV's main power is turned off. Set your TV's main power to on (standby mode).
	VCR Image View	When the VCR menu is operated, the TV automatically turns on and switches to EXT-2 input mode.	

■ To use T-V LINK:
- a T-V LINK compatible VCR is necessary.
- the VCR must be connected to the EXT-2 terminal on the TV by a fully wired SCART cable.

■ T-V LINK compatible VCRs:

In addition to all JVC VCRs that have the T-V LINK logo, any VCR that has one of the following logos are available for use:

"Q-LINK" (a trademark of Panasonic Corporation)
"Data Logic" (a trademark of Metz Corporation)
"Easy Link" (a trademark of Phillips Corporation)
"Megalogic" (a trademark of Grundig Corporation)
"SMARTLINK" (a trademark of Sony Corporation)

- These VCRs may support some or all of the features described above. For details, refer to the VCR Instruction Manual.

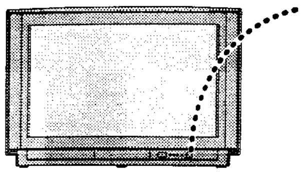
Note:
- *Not all VCRs support this type of data communication. Some may support certain features and not support others. For complete details, refer to the VCR Instruction Manual.*

■ When "FEATURE NOT AVAILABLE" is displayed:

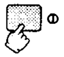
If "FEATURE NOT AVAILABLE" is displayed after download execution, the download was not performed correctly. Confirm the following before re-executing download:
- that the VCR power is turned on.
- that the VCR is T-V LINK compatible.
- that the VCR is connected to the EXT-2 terminal.
- that the SCART cable is fully wired.

■ Operating Precautions for DIRECT REC:
- **Generally, the VCR cannot record a channel that cannot be received properly by the VCR's tuner even though that channel could be viewed on the TV.**
- **In the following conditions, the VCR will stop recording if the TV is turned off, if the TV channel or input is switched, or if the menu is displayed on the TV:**
  - **When recording images from an external device connected to the EXT-1, EXT-3 or EXT-4 terminal.**
  - **When recording a channel after it has been unscrambled on a decoder.**
  - **When recording a channel by using the TV's output because that channel cannot be properly received on the VCR's tuner.**

Note:
- *Some VCRs can record a channel by using the TV's output if that channel can be viewed on the TV, even though the channel cannot be received properly by the VCR's tuner.*
  For details, refer to the VCR Instruction Manual.

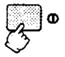


Turn the Main power on.



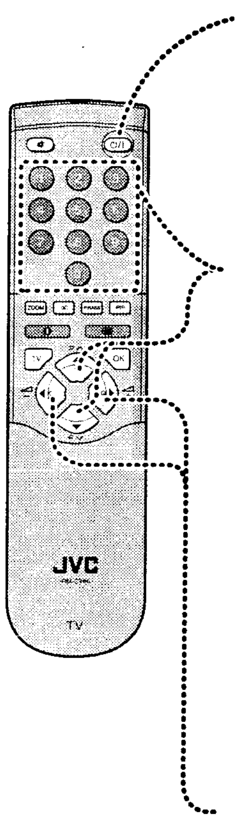
The Power lamp lights red and your TV is in the stanby mode.
- If the Power lamp lights green, the TV is already on.

- To turn the Main power off:

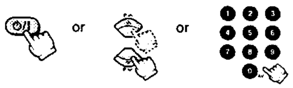


The Power lamp goes off.
- To save energy, turn the main power off if not using the TV for a long period of time.

Operating with the Remote Control

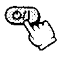


1 Turn the TV on from standby mode.



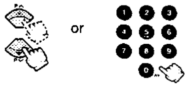
The Power lamp lights red to green.

- To turn the TV off:



The Power lamp changes from green to red.
The TV enters standby mode.

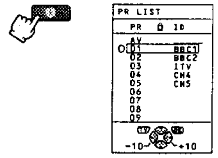
2 Choose a TV channel.



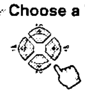
Example
- PR12 → press ❶ and ❷.
- PR6 → press ❻.

Use the PR List:

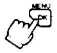
1 **Display the PR List.**


PR LIST
PR ID
AV
01 BBC1
02 BBC2
03 ITV
04 CH4
05 CH5
06
07
08
09
-10 +10

2 **Choose a TV channel.**

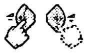


3 **Press** .



Notes:
- *For channels with Child Lock set, a 🔒 (Locked) mark is displayed next to the channel number.*
- *Using the PR List, the EXT terminal can also be chosen. Each EXT terminal is after the PR 99 channel.*
- *If you don't have a clear picture or no colour appears, change the colour system manually. See "Colour System" on page 20.*
- *If the picture is tilted or unnatural colour appears in the corner of the screen, correct the picture. See "Picture Tilt" on page 21.*

3 Adjust the volume.

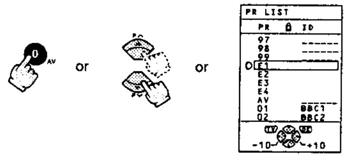


The Volume indicator appears and the volume changes as –/+ are pressed.

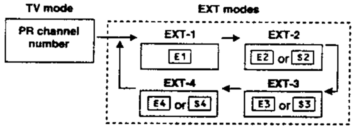
To listen to the sound using headphones, see "Headphone" on page 23.

Watch images from external devices.

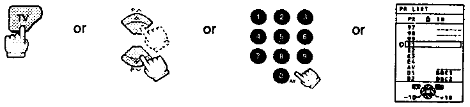
Choosing an EXT terminal or PR 0 (AV) channel.


or
or
PR LIST
PR ID
97
98
99
E1
E2
E3
E4
AV
01 BBC1
02 BBC2
-10 +10

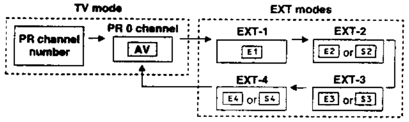
- The EXT terminals are registered after the PR 99 channel.
- Pressing ⓿ button changes the choice as follows:


TV mode
EXT modes
PR channel number
EXT-1
E1
EXT-2
E2 or S2
EXT-4
E4 or S4
EXT-3
E3 or S3

- To return to a TV channel:



- When the TV and VCR are connected only by the RF cable, the VCR RF channel* must be preset to the PR 0 (AV) channel to view VCR video. Choosing the PR 0 (AV) channel allows you to view images from VCR video.
Pressing ⓿ button changes the choice as follows:

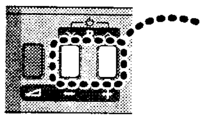

TV mode
EXT modes
PR channel number
PR 0 channel
AV
EXT-1
E1
EXT-2
E2 or S2
EXT-4
E4 or S4
EXT-3
E3 or S3

Notes:
- *To use S-Video mode to view input from an S-VHS VCR, see "To choose S-VIDEO input" on page 26. When choosing EXT-2, EXT-3 or EXT-4 input terminals as S-VIDEO input, E2, E3 or E4 changes to S2, S3 or S4 in the display.*
- *If you don't have a clear picture or no colour appears, change the colour system manually. (See "Colour System" on page 20.)*
- *When choosing an EXT terminal with no input signal, the EXT number and ID become fixed on screen.*

Note:
- *The VCR RF channel is the channel that is sent as the RF signal from the VCR. To set the VCR RF channel to the PR 0 (AV) channel, refer to "Edit/Manual" on page 30. Also refer to the manual provided with the VCR.*

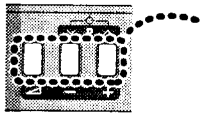
Operating with the Buttons on the TV

(Behind the front cover)



1 Turn the TV on from standby mode.

2 Choose a channel or an EXT terminal.

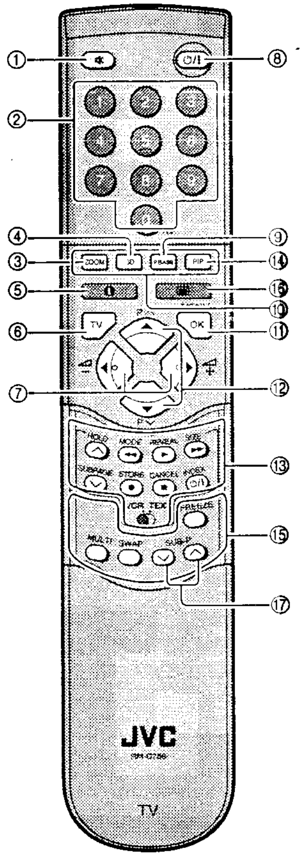


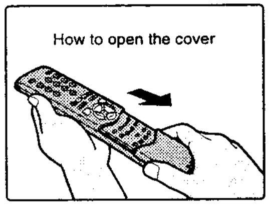
3 Adjust the volume.

1 **Press** ◁ .
The volume level indicator appears.

2 **Press –/+ while the volume level indicator is displayed.**
Indicator is displayed.

Remote Control Buttons and Functions

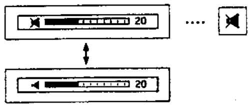



How to open the cover

① Muting Button

You can turn the volume off instantly.

Pressing ● (Muting) changes the current volume to "0".



② Number Buttons

You can choose a channel by entering the channel number.

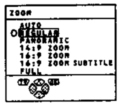
Example:
- PR 12 → press ● and ●.
- PR 6 → press ●.

■ You can choose an EXT terminal or PR 0 (AV) channel by pressing ● button repeatedly.

③ ZOOM Button

You can change the screen size. (See page 11.)

1 Press ● and press ▼/▲ to choose ZOOM mode.

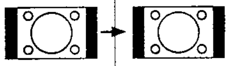
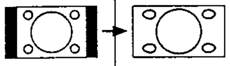
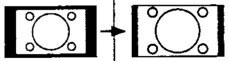
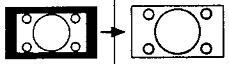
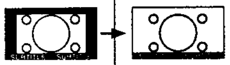
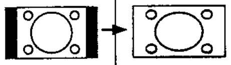


2 Press ●.

The picture expands and the choosed ZOOM mode is displayed in about 5 seconds.

Examples:
- *For details, see next page.*
- *You can preset a ZOOM mode for the normal picture. See "4:3 Auto Aspect" on page 21.*

ZOOM Button (continued)

Mode	Recommended Picture (Aspect)		Display	Remarks
AUTO	Any picture format except Normal Picture (4:3 Aspect Ratio)		The picture will be automatically displayed in the optimum screen size.	• AUTO may not function properly with poor signal quality. In this case, choose an optimum ZOOM mode manually.
	Normal Picture (4:3 Aspect Ratio)		Displayed in accordance with the zoom mode set on the 4:3 Auto Aspect menu. (See page 21 for further details.)	
REGULAR	**Normal Picture (4:3 Aspect Ratio)**			• Use to view a normal picture (4:3 aspect ratio) unchanged.
PANORAMIC	Normal Picture (4:3 Aspect Ratio)			• This mode stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural. • The top and bottom of the picture are slightly cut off.
14:9 ZOOM	Wide Picture (14:9 Aspect Ratio)			
16:9 ZOOM	Wide Picture (16:9 Aspect Ratio)			
16:9 ZOOM SUBTITLE	Wide Picture (16:9 Aspect Ratio) with Subtitles			
FULL	Normal Picture (4:3 Aspect Ratio)			• This mode uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen. • Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), you can restore their original dimensions.

Note:
- *This television supports WSS (wide-screen signals). When broadcasts with WSS are received with the ZOOM mode set at AUTO, the most suitable ZOOM mode is automatically selected in accordance with the WSS.*

Adjusting the visible area of the picture.

If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

1 Press ●.

The ZOOM menu appears.

2 Press ● to display the ZOOM mode indication.

Indicator is displayed.

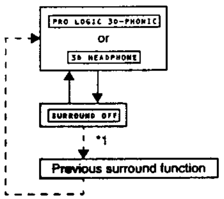
16:9 ZOOM ⇕

3 Before it disappears, press ▼/▲ to adjust the visible area vertically.

Notes:
- *You cannot adjust the visible area in AUTO, REGULAR and FULL mode.*
- *To return to the default position, display the ZOOM menu again and press ●.*

④ 3D Button

Pressing (3D) toggles the surround function as follows:

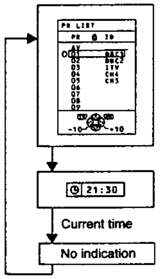


*1: If a surround function different from the Dolby Pro Logic 3D-Phonic or the 3D Headphone is activated before you press (3D), that surround function is returned to.

- The Dolby Pro Logic 3D-Phonic will be activated when the headphones are not connected. For details on the Dolby Pro Logic 3D-Phonic, refer to page 23.
- The 3D Headphone will be activated when the headphones are connected. For details on the 3D Headphone, refer to page 25.
- The 3D lamp on the TV lights when the Dolby Pro Logic 3D-Phonic or 3D Headphone function is activated.

⑤ Information Button

Pressing (Information) changes the display as follows.



About the PR List:
You can choose TV channels and EXT terminals operating the PR List. For details, see " Use the PR List" on page 8.

About the current time display:
This TV uses teletext data to set the current time.

- If the TV has not received a station that has teletext data since it was turned on, the time display is blank. To see the current time, choose a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you choose other stations, the time will still be displayed.
- When watching videos, the wrong current time is sometimes displayed.

> *Note:*
> - *When an EXT terminal with no input signal is chosen, the EXT number and ID become fixed on the screen.*

- ■ The (Information) button is also used for the menu operation.
  Please refer to "Menu Operation" on page 18 for more information.

⑥ TV Button

You can return to the TV mode instantly by pressing .

- ■ The button is also used for the menu operation.
  Please refer to "Menu Operation" on page 18 for more information.

⑦ ◀/▶ Buttons

You can adjust the volume.

- ■ The Headphone volume cannot adjusted with the ◀/▶ buttons. If you want to adjust it, please refer to "Headphone" on page 23.
- ■ The ◀/▶ buttons are also used for the menu operation.
  Please refer to "Menu Operation" on page 18 for more information.

⑧ Standby Button

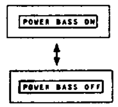
Pressing (Standby) button turns the TV on or off.

- When the TV is turned on, the power lamp changes from red to green.

⑨ P.BASS (power bass) Button

You can enjoy richer and fuller bass sound.

Pressing (Power Bass) turns the Power Bass on or off.



⑩ Colour Buttons

The colour buttons are used for the teletext operations or the menu operations. Please refer to "Teletext Control Buttons and VCR/TEXT Switch" on page 16 or "Menu operation" on page 18 for more information.

⑪ OK Button

The button is used for menu operation.
Please refer to "Menu Operation" on page 18 for more information.

⑫ ▼/▲ Buttons

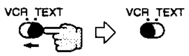
You can choose a channel by pressing the ▼/▲ buttons.

- ■ The ▼/▲ buttons are also used for the menu operation.
  Please refer to "Menu Operation" on page 18 for more information.

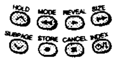
⑬ VCR Control Buttons and VCR/TEXT Switch

You can control your JVC VCR using the VCR Control buttons.

1 Set the VCR/TEXT Switch to the VCR side.



2 Press a VCR control button to control your JVC VCR.



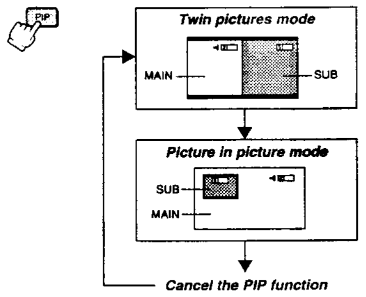
> *Notes:*
> - *For details on the VCR Control buttons, see the VCR manual.*
> - *Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.*

⑭ ⑮ PIP (picture in picture) Control buttons

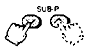
■ PIP operation

Two pictures (MAIN and SUB) are displayed at the same time.

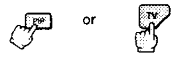
1 Display the SUB-picture and choose a mode.
Pressing PIP changes a PIP mode as follows.



2 Choose a channel or an EXT mode for the SUB-picture.



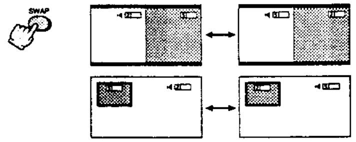
- Cancelling the PIP function.



Listening to the sound of SUB-picture.
You can listen to the sound of SUB-picture on your headphones while listening to the sound of MAIN-picture on the speakers.
For details, see "Headphone" on page 23.

Choosing a position for SUB-picture.
You can choose one of four positions.
For details, see "PIP" on page 21.

Swapping the MAIN and SUB-pictures.

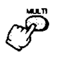


Notes:
- *The MAIN-picture and SUB-picture must be different.*
- *If the MAIN-picture signal is poor, then the quality of the SUB-picture may also be poor.*
- *If the picture standard of both pictures is different, the top and bottom or one of them may be missing.*
- *If an external device is operated, the SUB-picture may disappear. If this happens, press PIP again to redisplay the SUB-picture.*
- *If you display a menu, the PIP function will be cancelled.*
- *You cannot view a scrambled channel in the SUB-picture. If the SWAP button is pressed when viewing a scrambled channel in the MAIN picture using an external decoder, the channel you have been viewing in the SUB-picture will appear in both the MAIN-picture and SUB-picture.*
- *The SUB-picture or Multi-pictures cannot be output from TV as TV output signals.*
- *Do not press the SWAP button while you are recording the TV output on the VCR. If you do, the TV output signal will change.*

■ Multi-picture operation

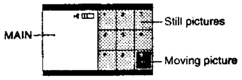
You can display multi-pictures that enable you to easily find a program you want to view.

1 Display the multi-pictures.

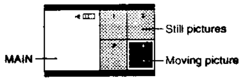


The channels and EXT mode pictures are displayed in the channel number order.
The multi-pictures will appear in one of the two multi-picture modes.

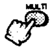
10-pictures multi:



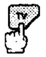
5-pictures multi:



Display the next multi-pictures

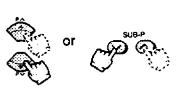


- **Cancelling the multi-pictures.**



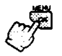
Multi-picture operation (continued)

2 Choose a picture you want to view.



The chosen picture changes to a moving picture.

3 Press OK.



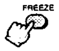
The multi-pictures disappear and the chosen picture appears.

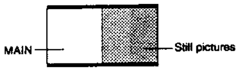
Changing the multi-picture mode.
See "PIP" on page 21.

Notes:
- *You cannot display a menu in the multi-picture mode. If you want to display a menu, press TV to cancel the multi-picture mode.*
- *The Station ID of each channel will be displayed as up to three characters in the multi-pictures.*
- *You cannot use an external decoder for the channel in a multi-picture. The scrambled channels in multi-pictures will be displayed as scrambled.*

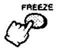
■ Freeze Operation

You can view the Main picture's frozen image as the SUB-picture.





- Cancelling the Freeze function.



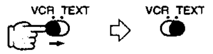
⑩ ⑬ ⑯ ⑰ Teletext Control Buttons and VCR/TEXT Switch

■ Basic operation

You can view two types of teletext broadcasts on the TV; Fastext and WST.

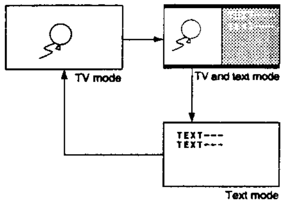
1 Choose a channel with a teletext broadcast.

2 Set the VCR/TEXT switch to the TEXT side.

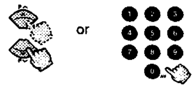


3 Display the teletext.

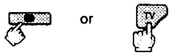
Pressing ▭ (Text) change the mode as follows:



4 Choose a teletext page.



- To return to the TV mode:



Notes:
- *If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.*
- *Category names of teletext pages may appear instead of page numbers.*
- *In Text mode, ZOOM mode is fixed to FULL mode.*
- *None of the Menu operations are possible when viewing a teletext programme.*

■ Viewing a TV programme on the current channel and Teletext programme on the other channel at the same time.

1 Choose a teletext programme.

Only teletext programmes can be changed.

- Once returned to the TV mode, this operation will be canceled.

Notes:
- *You can view a Teletext programme on the other channel while listening to the current TV programme even in the Text mode.*
- *A Teletext programme on the 🔒 (Locked) channel cannot be viewed.*

■ Using the List Mode

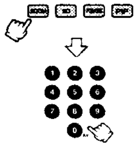
You can store the numbers of your favourite teletext pages and call them up quickly using the colour buttons.

To store the page numbers

1 Engage the List mode.

Stored page numbers are displayed at the bottom of the screen.

2 Choose the position, then enter the page number.



3 Press ⓢ and hold on.

The four page numbers blink white to indicate that they are stored in memory.

To call up a stored page

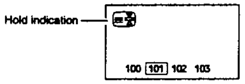
1 Engage the List mode.

To cancel the List mode:

2 Press a colour button to which a page has been assigned.

■ Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.



To cancel the hold:

■ Sub Page

Some teletext pages include sub-pages that are automatically displayed. You can hold any sub-page, or view it at any time.

1 Display the sub-page list.

Sub-page numbers are displayed at the left of the screen.

Colour*	Meaning of sub-page number
Yellow	Currently being displayed.
White	Can be displayed.
Blue or Red	Cannot be displayed and it is not sent.

*: Background color of the sub-page number.

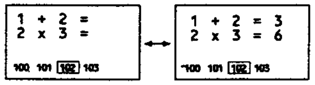
2 Choose a sub-page.

- *To cancel sub-page:*

■ Reveal

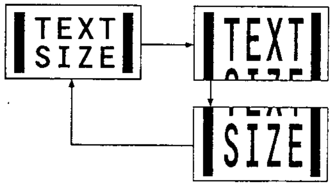
Some teletext pages include hidden text (such as answers to a quiz).

Each time you press ⓢ, text is hidden or revealed.



■ Size

You can double the height of the teletext display.



■ Index

You can return to the index page instantly.

Fastext/WST:
Returns to page 100 or a previously specified page.
List mode:
Returns to the page number displayed in the lower left area of the screen.

■ Cancel

You can search for a teletext page while watching TV.

1 Choose a teletext page.
The TV searches for a teletext page.

2 Cancel teletext mode temporally.

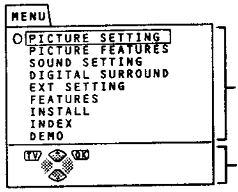
The TV programme appears.
When the TV finds the teletext page, its page number appears in the upper left of the screen.

3 Return to a teletext page when the page number is on the screen.

Menu Operation

1 Display MENU.

The MENU (main menu) appears.

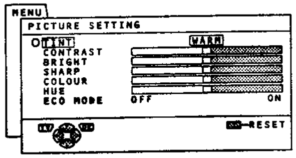

MENU
PICTURE SETTING
PICTURE FEATURES
SOUND SETTING
DIGITAL SURROUND
EXT SETTING
FEATURES
INSTALL
INDEX
DEMO
TV
OK

items

Buttons on the Remote Controll to operate the menu.

2 Choose an item.

3 Display the sub-menu.

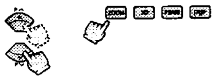

MENU
PICTURE SETTING
TINT
WARM
CONTRAST
BRIGHT
SHARP
COLOUR
HUE
ECO MODE
OFF
ON
RESET

Sub-menu items

4 Choose an Sub-menu item.

5 Change the setting.

- Depending on the Sub-menu display, the following buttons can be used.



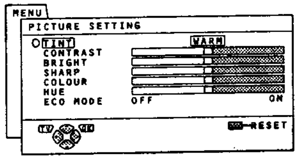
6 Complete the setting.

The menu disappears.

To return to the previous menu or exit the MENU.

To exit the MENU instantly.

Picture Setting


MENU
PICTURE SETTING
TINT
WARM
CONTRAST
BRIGHT
SHARP
COLOUR
HUE
ECO MODE
OFF
ON
RESET

1 **Display MENU.**

2 **Choose PICTURE SETTING.**

3 **Display the Picture Setting menu.**

Tint

You can choose one of three Tint modes to adjust the picture settings automatically.

1 **Press ▼/▲ to choose TINT.**

2 **Press ◀/▶ to choose a mode.**

COOL:
A cool white colour base with a boost in the colour and contrast levels that creates a more vivid picture.

WARM:
A warm orange/red colour base that creates the appropriate colour and contrast levels for watching films.

NORMAL:
A normal white colour base with normal colour and contrast levels.

3 **Press ⊛.**
This completes the setting.

Picture Adjustment

You can adjust the picture to your liking.

1 **Press ▼/▲ to choose an item.**

2 **Press ◀/▶ to adjust the setting.**

◀	Item	▶
Lower	CONTRAST (picture contrast)	Higher
Darker	BRIGHT (picture brightness)	Brighter
Softer	SHARP (picture sharpness)	Sharper
Lighter	COLOUR (picture colour)	Deeper
Reddish	HUE (picture hue)	Greenish

Note:
- *You can adjust the HUE (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.*

- To return to the default settings, press the blue button.

3 **Press ⊛.**
This completes the setting.

Eco Mode

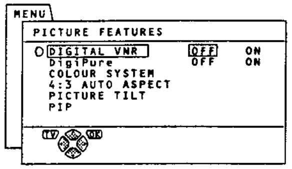
When you set the Eco Mode to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room.
This reduces eye strain and the power consumption of the TV.

1 **Press ▼/▲ to choose ECO MODE.**

2 **Press ◀/▶ to choose ON.**
- To cancel the Eco Mode, choose OFF.

3 **Press ⊛.**
This completes the setting.
- If you set the Eco Mode to ON, the Eco lamp lights.

Picture Features


MENU
PICTURE FEATURES
○ DIGITAL VNR OFF ON
DigiPure OFF ON
COLOUR SYSTEM
4:3 AUTO ASPECT
PICTURE TILT
PIP

1. **Display MENU.**

2. **Choose PICTURE FEATURES.**

3. **Display the Picture Features menu.**

Digital VNR

When you set the Digital VNR to ON, you can reduce the noise on the screen so improving picture quality further.

1. **Press ▼/▲ to choose DIGITAL VNR.**
2. **Press ◄/► to choose ON.**
   - *To cancel the Digital VNR, choose OFF.*
3. **Press OK.**
   This completes the setting.

DigiPure

When the DigiPure is set to ON, optimum edge compensation applies to each portion of the same picture through digital edge compensation. Thus, Clear and natural looking images are obtained.

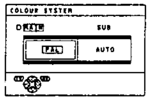
1. **Press ▼/▲ to choose DigiPure.**
2. **Press ◄/► to choose ON.**
   - *To cancel the DigiPure, choose OFF.*
3. **Press OK.**
   This completes the setting.

Notes:
- *Set the DigiPure to ON normally.*
- *The DigiPure function can also be set to ON and OFF by pressing ◿ (Volume) button on the TV for 5 seconds or more.*

Colour System

The colour system is automatically chosen, but if the picture is not clear or no colour appears, choose the colour system manually.

1. **Press ▼/▲ to choose COLOUR SYSTEM. Then Press OK**


COLOUR SYSTEM
○ MAIN SUB
PAL AUTO

2. **Press ◄/► to choose MAIN or SUB.**

   MAIN:
   You can choose the colour system of MAIN-picture.
   SUB:
   You can choose the colour system of SUB-picture.

3. **Press ▼/▲ to choose the appropriate colour system.**

   PAL:
   PAL system.
   NTSC3.58:
   NTSC 3.58 MHz system.
   NTSC4.43:
   NTSC 4.43 MHz system.
   AUTO:
   Automatic colour system selection.

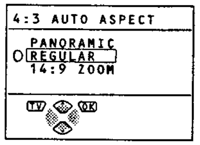
Notes:
- *The AUTO may not function properly with poor signal quality. If the picture is abnormal in AUTO mode, choose another colour system manually.*
- *When in the TV mode (PR 1 to PR 99), you cannot choose AUTO, NTSC 3.58 or NTSC 4.43.*
- *When in the TV mode (PR 0), you cannot choose NTSC 3.58 or NTSC 4.43.*

4. **Press OK.**
   This completes the setting.

4:3 Auto Aspect

You can preset one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

1. **Press ▼/▲ to choose 4:3 AUTO ASPECT. Then press OK.**
   The 4:3 AUTO ASPECT menu appears.

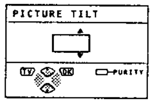

4:3 AUTO ASPECT
PANORAMIC
○ REGULAR
14:9 ZOOM

2. **Press ▼/▲ to choose a ZOOM mode.**
3. **Press OK.**
   This completes the setting.

Picture Tilt

There are cases where the effects of the magnetic pull from the earth may make the picture tilt or make unnatural colours appear in the corner of the screen. If this happens, correct the picture as follows.

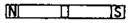
1. **Press ▼/▲ to choose PICTURE TILT. Then press OK.**
   The PICTURE TILT menu appears.


PICTURE TILT

2. **Correct the picture.**

   To correct picture tilt:
   - **Press ▼/▲ until the picture becomes horizontal.**

   To reduce unnatural colouring:
   1. **Press the blue button in order to display the purity correction screen.**



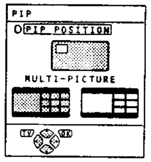
   2. **Press ◄/► until the unnatural colouring is reduced as much as possible.**

3. **Press OK.**
   The correction is complete.

PIP

You can choose one of four positions of the SUB-picture. You can also choose one of two Multi-Picture modes.

1. **Press ▼/▲ to choose PIP. Then press OK.**
   The PIP menu appears.


PIP
○ PIP POSITION
MULTI-PICTURE

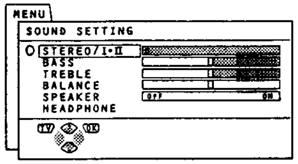
2. **Change the PIP menu setting.**

   Choosing a position of SUB-picture:
   1. **Press ▼/▲ to choose PIP POSITION.**
   2. **Press ◄/► to choose a position.**

   Choosing a Multi-Picture mode:
   1. **Press ▼/▲ to choose MULTI-PICTURE.**
   2. **Press ◄/► to choose a mode.**

3. **Press OK.**
   This completes the setting.

Sound Setting



1 **Display MENU.**

2 **Choose SOUND SETTING.**

3 **Display the Sound Setting menu.**

Stereo / I • II

You can choose Multi Sound mode for stereo broadcast programmes and bilingual programmes.

Note:
- *Multi Sound can only be used with NICAM (I) broadcast programmes.*

1 **Press ▼/▲ to choose STEREO / I • II.**

Notes:
- *The Multi Sound mode display is different from the broadcast programme.*
- *The Multi Sound function does not work in the EXT modes. And the STEREO / I•II does not appear in SOUND SETTING menu.*

2 **Press ◀/▶ to choose a Multi Sound mode.**

ꝏ : Stereo sound
I : Bilingual I (Sub I)
II : Bilingual II (Sub II)
○ : Normal sound

3 **Press OK.**
This completes the setting.

Note:
- *When you display the current PR channel number, the current Multi Sound mode appears for approximately 3 seconds.*

Sound Adjustment

You can adjust the sound to your liking.

1 **Press ▼/▲ to choose an item.**

Note:
- *When DOLBY PRO LOGIC or PRO LOGIC 3D-PHONIC is chosen in the DIGITAL SURROUND menu, "BALANCE" does not appear. If you want to adjust the sound balance, see pages 24 and 36.*

2 **Press ◀/▶ to adjust it.**

◀	Item	▶
Weaker	BASS	Stronger
Weaker	TREBLE	Stronger
Left	BALANCE	Right

3 **Press OK.**
This completes the settings.

Speaker

It is possible to prevent the sound being emitted from the TV speakers. This function should only be used to emit the sound from an audio system connected to the television as a substitute for the TV speakers.

When you use your audio system instead of the TV speakers:
Please refer to "Connecting an Audio System" on page 36.

To output the sound from TV speakers:

1 **Press ▼/▲ to choose SPEAKER.**

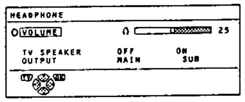
2 **Press ◀/▶ to choose ON.**

3 **Press OK.**
This completes the setting.

Headphone

You need to use the headphone menu in order to adjust the volume of the headphones. Use of the headphone menu also makes it possible to select whether to emit sound from the TV speakers when using the headphones, and whether to emit the sound of the MAIN-picture or SUB-picture through the headphones.

1 **Press ▼/▲ to choose HEADPHONE. Then press OK.**
The Headphone menu appears.



2 **Change the setting.**

To adjust the volume of the headphones:

1 **Press ▼/▲ to choose VOLUME.**

2 **Press ◀/▶ to adjust the volume.**

To prevent the sound being emitted from the TV speakers when the headphones are in use.

1 **Press ▼/▲ to choose TV SPEAKER.**

2 **Press ◀/▶ to choose OFF.**

- The sound will be emitted from the TV speakers even when listening on the headphones if the TV SPEAKER setting is at ON.

Notes:
- *Set the TV SPEAKER setting to ON in order to listen to the Sub-picture sound on the headphones and the Main-picture sound on the TV speakers.*
- *The Sub-picture sound cannot be emitted from the TV speakers.*
- *The sound output from AUDIO OUT terminals can not be turned off.*

To listen to the sound of the SUB-picture on your headphones:

1 **Press ▼/▲ to choose OUTPUT.**

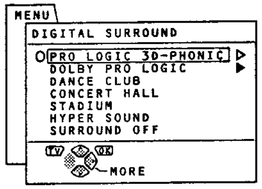
2 **Press ◀/▶ to choose SUB.**

- To listen to the sound of the MAIN-picture, press ◀/▶ to choose MAIN.

Notes:
- *When the SUB-picture is in TV mode, the SUB-picture sound is mono only.*
- *The Multi sound function does not work for the SUB-picture sound.*
- *Neither any of the surround sound functions nor the Power Bass function work for the SUB-picture sound.*

3 **Press OK.**
The completes the settings.

Digital Surround



1 **Display MENU.**

2 **Choose DIGITAL SURROUND.**

3 **Display the Digital Surround menu.**

Note:
- *The Headphone Surround menu appears when the headphones are connected.*

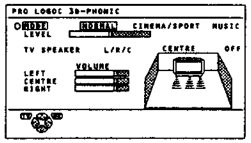
Dolby Pro Logic 3D-Phonic

You can enjoy the atmosphere of Dolby Surround programmes without external speakers.

Notes:
- *This function is only available for Dolby Surround encoded programmes.*
- *The 3D lamp lights while this function is operating.*

1 **Press ▼/▲ to choose PRO LOGIC 3D-PHONIC. Then press ▶.**

The PRO LOGIC 3D-PHONIC menu appears.



- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

2 **Press ▼/▲ to choose MODE and ◀/▶ to choose a mode.**

NORMAL:
For normal programmes
CINEMA/SPORT:
For cinema and sports programmes
MUSIC:
For music programmes

Adjusting the effect level:

Press ▼/▲ to choose LEVEL and ◀/▶ to adjust the effect levels.

Adjusting the speaker volume:

Press ▼/▲ to choose a speaker. Then, press ◀/▶ to adjust the volume level.

TV SPEAKER:
Only change this setting when you use your audio system instead of TV speakers. For details, refer to "Connecting an Audio System" on page 36.

Note:
- *When external speakers are not connected, leave the TV SPEAKER setting as L/R/C. Otherwise, the sound may not function properly or become mono.*

Press ▼/▲ to choose TV SPEAKER. Then, press ◀/▶ to choose a TV Speaker mode.

L/R/C:
Use when you do not use your audio system.
CENTRE:
Use when you use your audio system.
TV speakers will work as the centre speakers when you enjoy the Dolby Pro Logic 3D-Phonic.
This method enhances spoken dialogue.
OFF:
Use when you use your audio system.
TV speakers will not sound.
This mode does not use a centre speaker.

3 **Press OK.**

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Note:
- *When headphones are connected to the TV, the 3D Headphone function operates automatically.*

Using the 3D button:

You can turn on Dolby Pro Logic 3D-Phonic with one touch. For details, refer to "④ 3D Button" on page 12.

Dolby Pro Logic

You can enjoy Dolby Pro Logic* surround sound with additional surround speakers.
For connecting surround speakers, refer to "Connecting Surround Speakers" on page 36.

Notes:
- *This function will not work correctly if you do not connect the additional surround speakers.*
- *You can connect both your audio system and additional surround speakers, and enjoy Dolby Pro Logic surround sound. For details, refer to "Connecting both Your Audio System and Surround Speakers" on page 37.*
- *This function only available for Dolby Surround encoded programmes.*
- *You cannot enjoy Dolby Pro Logic surround sound with headphones.*

* Manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY", the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

1 **Press ▼/▲ to choose DOLBY PRO LOGIC.**

2 **Press OK.**

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Note:
- ***When headphones** are connected to the TV, the 3D Headphone function operates automatically.*

Other Surround Functions

You can enjoy enhanced sound by choosing one of four Digital Surround modes.

1 **Press ▼/▲ to choose a mode.**

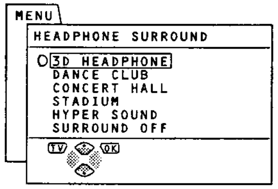
DANCE CLUB:
Creates a dance club atmosphere.
CONCERT HALL:
Creates a concert hall atmosphere.
STADIUM:
Creates a stadium atmosphere.
HYPER SOUND:
Enhances mono sound to create a stereo sound feel.

2 **Press OK.**

- ● To cancel the surround function, choose SURROUND OFF from the Digital Surround menu and then press OK.

Notes:
- *Digital surround functions other than Hyper Sound do not work well for programmes in mono.*
- *Hyper Sound only works for programmes in mono. It does not work well for programmes in stereo.*
- *If the headphones are connected while in one of the above modes, one of Headphone Surround functions will activate automatically.*

Headphone Surround



Condition:
- *You have to connect the headphones to the TV before you display the MENU.*

1 **Display MENU.**

2 **Choose HEADPHONE SURROUND.**

3 **Display the Headphone Surround menu.**

Headphone Surround

You can enjoy enhanced sound while using headphones by choosing one of five Headphone Surround modes.

1 **Press ▼/▲ to choose a mode.**

3D HEADPHONE:
Creates a broad, atmospheric sound.
DANCE CLUB:
Creates a dance club atmosphere.
CONCERT HALL:
Creates a concert hall atmosphere.
STADIUM:
Creates a stadium atmosphere.
HYPER SOUND:
Enhances mono sound to create a stereo sound feel.

2 **Press OK.**

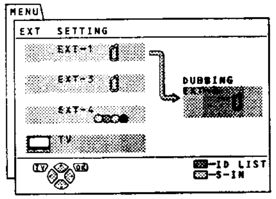
- ● To cancel the surround function, choose SURROUND OFF from the Headphone Surround menu and then press OK.

Using the 3D button:

You can turn on 3D Headphone with one touch. For details, refer to "④ 3D Button" on page 12.

Note:
- *The 3D lamp lights while the 3D Headphone function is operating.*

EXT Setting


MENU
EXT SETTING
EXT-1
EXT-3
EXT-4
TV
DUBBING
ID LIST
S-IN

1 Display MENU.

2 Choose EXT SETTING.

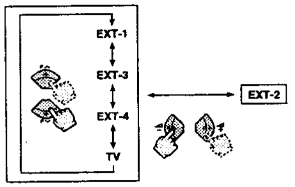
3 Display the EXT Setting menu.

EXT Setting

You can choose S-VIDEO or normal input for EXT-2, EXT-3 and EXT-4 terminals, and you can give an EXT ID to each EXT input terminal.

■ To choose S-VIDEO input

1 Press ◀/▶/▼/▲ to choose an EXT terminal.



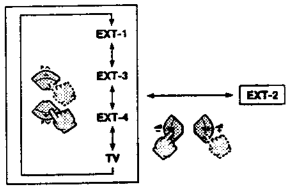
2 Press the yellow button.
The S-VIDEO input indication appears.

- To choose normal input, press the yellow button again.

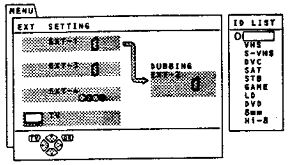
3 Press ⓞ.
This completes the setting.

■ To give an EXT ID

1 Press ◀/▶/▼/▲ to choose an EXT terminal.



2 Press the blue button.
The ID LIST appears.


MENU
EXT SETTING
DUBBING
ID LIST
VHS
S-VHS
DVC
SAT
STB
GAME
LD
DVD
8mm
Hi-8

3 Press ▼/▲ to choose a EXT ID.

Note:
- *To erase the EXT ID, choose a blank space.*

4 Press ⓞ.
The EXT ID is set to the EXT terminal.

5 Press ⓞ.
This completes the setting.

Dubbing

You can choose output to a VCR or other device connected to the EXT-2 terminal. Note that you cannot output from the EXT-2 terminal when the TV is turned off.

Note:
- *RGB signals from TV games and Teletext screens cannot be output from EXT-2 terminal.*

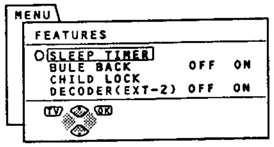
1 Press ◀/▶ to choose EXT-2.

2 Press ▼/▲ to choose the output.

If you choose TV:
The sound and picture of the currently chosen channel is output to EXT-2 and this output can be recorded on a VCR connected to the EXT-2 terminal while watching a video input from other terminals.

3 Press ⓞ.
This completes the setting.

Features


MENU
FEATURES
SLEEP TIMER
BULE BACK OFF ON
CHILD LOCK
DECODER(EXT-2) OFF ON

1 Display MENU.

2 Choose FEATURES.

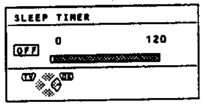
3 Display the Features menu.

Sleep Timer

You can set the TV to automatically turn off after a specified period of time.

Note:
- *The Sleep Timer does not turn off the Main power.*

1 Press ▼/▲ to choose SLEEP TIMER. Then press ⓞ.
The Sleep Timer menu appears.


SLEEP TIMER
OFF 0 120

2 Press ◀/▶ to choose a period of time.
You can set the period of time a maximum of 120 minutes in 10 minute increments.

3 Press ⓞ.
The Sleep Timer lamp lights if you set the Sleep Timer.

To display the remaining time:
Do step 1 to display the Sleep Timer menu, and press ⓞ after checking the remaining time.

To cancel the Sleep Timer:
Do step 1 to display the Sleep Timer menu.
Press ◀▶ choose "OFF", and then press ⓞ.
- *The Sleep Timer lamp goes out.*

Note:
- *One minute before the Sleep Timer turns off the TV, "GOOD NIGHT!" appears.*

Blue Back

You can set the TV to automatically change to a blue screen and mute the sound when a week signal or no signal is received, or when there is no input from an external device.

1 Press ▼/▲ to choose BLUE BACK.

2 Press ◀/▶ to choose ON.

- To cancel the Blue Back, choose OFF.

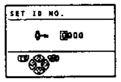
3 Press ⓞ.
This completes the setting.

Child Lock

You can lock some channels to prevent your children from watching them.

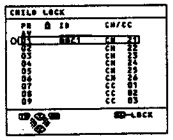
■ To set the CHILD LOCK

1 Press ▼/▲ to choose CHILD LOCK. Then press ⓪ (number 0).
The Set ID No. menu appears.


SET ID NO.

2 Enter the ID number.
1. Press ▼/▲ to choose a number.
2. Press ◀/▶ to move the cursor.

3 Press ⓞ.
The Child Lock menu appears.


CHILD LOCK
PR ID CH/CC

4. **Press ▼/▲ to choose a channel, then press the blue button.**

   The 🔒 (locked) mark appears, and the chosen channel is locked.

   - To cancel the Child Lock, press the blue button again.
   - Repeat step 4 to lock all channels which you want to lock.

5. **Press OK.**

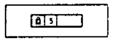
   This completes the setting.

Notes:
- *You cannot choose a locked channel using the ▼/▲ buttons on the remote control nor the P ∨/∧ buttons on the TV.*
- *Even if a locked channel is displayed, the programme cannot be watched.*

■ To watch a locked channel

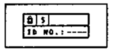
1. **Press the number buttons to choose a locked channel.**

   The 🔒 (locked) mark appears.



2. **Press (Information).**

   The ID No. input menu appears.



3. **Press the number buttons to enter the ID number.**

   The locked channel can now be watched.

If you forget the ID number:
Do steps 1 of "To set the Child Lock". After confirming the ID number, press TV to exit the menu.

Decoder (EXT-2)

When you connect a Decoder to a T-V LINK compatible VCR, you have to set the Decoder (EXT-2) to ON for watching scrambled channels.

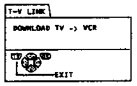
1. **Choose a scrambled channel.**

   The scrambled picture appears.

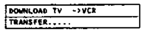
   - *If the picture is unscrambled you don't need to change the Decoder (EXT-2) setting.*

2. **Press OK to display MENU. Then Press ▼/▲ to choose FEATURES.**
3. **Press OK to display the Features menu.**
4. **Press ▼/▲ to choose DECODER (EXT-2).**
5. **Press ◀/▶ to choose ON.**
6. **Press OK.**

   The T-V LINK menu appears.



7. **Press OK.**

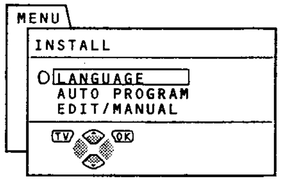


The translation of channel data from the TV to the VCR begins. The display disappears once the data transmission ends.

- Repeat steps 1 to 7 watch a different channel using the decoder.

Note:
- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's manual.*

Install



1. **Display MENU**

2. **Choose INSTALL.**

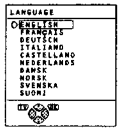
3. **Display the Install menu.**

Language

You can choose one of 10 languages for the on-screen display.

1. **Press ▼/▲ to choose LANGUAGE.**

   The Language menu appears.



2. **Press ▼/▲ to choose a language.**
3. **Press OK.**

   This completes the setting.

Auto Program

You can automatically allocate up to 99 stations to the PR channels (PR 1 to PR 99) on this TV.

1. **Press ▼/▲ to choose AUTO PROGRAM, then press OK.**

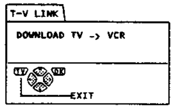
   The Auto Programming starts. The Edit menu appears after the PR channels have been set.

   - ■ BBC1, BBC2, ITV, CHANNEL 4 and CHANNEL 5 are automatically set to PR 1 to PR 5.
   - ■ If the TV doesn't receive one of these channels, that PR channel will not be set.
   - ■ SKY 1 is set to PR 6, but no ID is set.

Notes:
- *In some areas TV reception is possible from more than one transmitter, e.g. different ITV regions. In this case each TV channel may be set twice. If this happens the first set of channels will have the stronger signal. If you want to delete the second set of channels, you will have to do it manually, see page 30.*
- *To receive SKY 1 a satellite tuner is needed. You must have the tuner set to SKY 1 before carrying out automatic tuning.*
- *To cancel the Auto programming, press TV.*
- *If a station you want to view is not set to a PR channel, manually set it using the Edit menu. (See page 30.)*
- *To edit PR channels or set a station to PR 0 (AV) channel, refer to page 30 "Edit/Manual".*

4. **Press OK.**

   This completes the procedure and the T-V LINK menu appears.



When a T-V LINK compatible VCR is connected:
You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page 32.

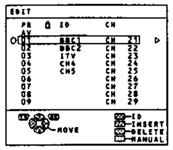
When a T-V LINK compatible VCR is not connected:
You cannot transmit the latest PR channel data from the TV to the VCR.
Press TV to exit the T-V LINK menu.

Edit/Manual

You can change PR channel settings.

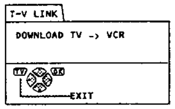
- You can delete an unwanted station from a PR channel,
- You can change the PR channel number of a station,
- You can add station IDs to PR channels,
- You can insert a new station to a PR channel, or
- You can manually set the desired station to a PR channel.

1 Press ▼/▲ to choose EDIT/MANUAL.
The Edit menu appears.



2 Use any of the following procedures to edit the PR channel setting.

3 Press ⓞ.
This completes the procedure and the T-V LINK menu appears.

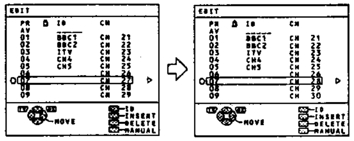


When a T-V LINK compatible VCR is connected:
You can transmit the latest PR channel data from the TV to the VCR. Carry out the procedure described in "Downloading the PR channel data to the VCR" on page 32.

When a T-V LINK compatible VCR is not connected:
You cannot transmit the latest PR channel data from the TV to the VCR. Press ⓞ to exit the T-V LINK menu.

■ Deleting a station

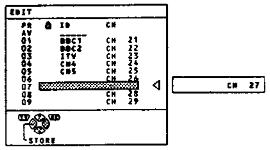
1 Press ▼/▲ to choose the station you want to delete then press the yellow button.



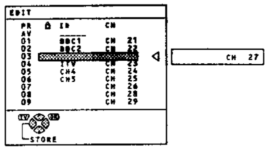
Note:
- *If you delete a station from a PR channel, the following stations PR channel number move back one.*

■ Changing the PR channel number

1 Press ▼/▲ to choose the station, then press ▶.



2 Press ▼/▲ to move the station to the desired PR channel number.

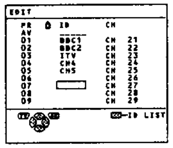


- To cancel the operation, press ⓘ (Information).

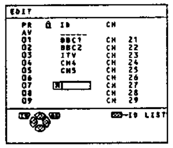
3 Press ◀.

■ Adding a Station ID

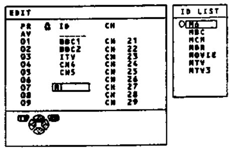
1 Press ▼/▲ to choose the station, then press the red button.



2 Press ▼/▲ to choose the first character of the desired Station ID.



3 Press the blue button.
The ID List menu appears.



4 Press ▼/▲ to choose the station ID.

- To cancel the operation, press ⓘ (Information).

5 Press ⓞ.

Adding a Station ID name of your own:
Do the following procedure in place of "Adding a Station ID".

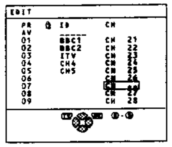
1 Press ▼/▲ to choose the station, then press the red button.

2 Press ▼/▲ to choose a character, then press ◀/▶ to move the cursor.

3 Repeat step 2 to complete the Station ID, then press ⓞ.

■ Inserting a new station

1 Press ▼/▲ to choose the PR channel, then press the green button.



- To cancel the operation, press ⓘ (Information).

Note:
- *For details on the relationship between the displayed CH number and the actual channel number, see the Channel Table on page 38.*

2 Press the number buttons to enter the channel number.
The channel number blinks. When the channel setting is complete, the blinking goes off.

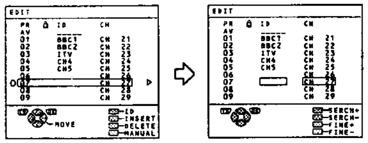
- To enter a one-digit channel number, enter the number and press ⓞ.

Note:
- *When you insert a station, the station preset to PR99 is deleted.*

■ Setting a station to a PR channel manually

1 Press ▼/▲ to choose a PR channel number, then press the blue button.

Note:
- *PR channel number "AV" appears on the screen as PR 0 channel. We recommend setting this PR channel to the VCR RF channel from a VCR connected to the aerial socket.*



2 Press the green or red button to search for a station.
Scanning stops when the TV finds a station.
To continue searching, press the red or green button again and repeat until the station you want appears.

If reception is poor:
Press the blue or yellow button to fine-tune the station.

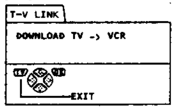
Note:
- *For details on the relationship between the displayed CH number and the actual channel number, see the Channel Table on page 38.*

3 Press ⓞ.

■ Downloading the PR channel data to the VCR.

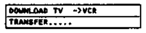
You can transmit the latest PR channel data from the TV to the VCR with T-V LINK.

1. **Make sure that the T-V LINK menu is displayed.**


T-V LINK
DOWNLOAD TV -> VCR
TV
OK
EXIT

Notes:
- *You cannot display the T-V LINK menu directly by choosing it from a menu.*
- *You cannot transmit the PR channel data to the VCR when a T-VLINK compatible VCR is not connected. Press TV to exit the menu.*
- *For details about T-V LINK, refer to page 7.*

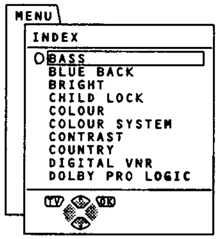
2. **Turn the VCR on.**
3. **Press OK.**


DOWNLOAD TV ->VCR
TRANSFER.....

The data transmission begins.
The display disappears once the data transmission ends.

Note:
- *Depending on the type of VCR, the display may change once data transmission ends. In this case, refer to the VCR's manual.*

Index


MENU
INDEX
BASS
BLUE BACK
BRIGHT
CHILD LOCK
COLOUR
COLOUR SYSTEM
CONTRAST
COUNTRY
DIGITAL VNR
DOLBY PRO LOGIC
TV
OK

1. **Display MENU.**

2. **Choose INDEX.**

3. **Display the Index menu.**

The functions in each menu are listed in the Index menu. The required function can be found in the Index menu and the operating menu for that function can be entered with one touch.

1 Press ▼/▲ to choose a function.

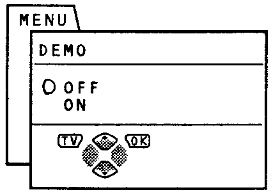
If the desired function is not displayed, press ▼/▲ until it appears.

2 Press OK.

The chosen function's operating menu will be displayed.

- To return to the MENU (Main Menu), press **i** (Information).

Demo


MENU
DEMO
OFF
ON
TV
OK

1. **Display MENU.**

2. **Choose DEMO.**

3. **Display the Demo menu.**

You can see the main features of your TV by using the Demo function.

When the Demo is set to ON:
Each time the TV is turned on, the demonstration starts automatically. If you do not want that to happen, set the Demo setting to OFF.

1 Press ▼/▲ to choose ON.

- To cancel the Demo function, choose OFF.

2 Press OK.

The demonstration will start.

To stop the demonstration, press one of the buttons on the remote control.

Additional Preparation

Notes:
- *Use headphones with a stereo mini jack (dia. 3.5 mm).*
- *When using headphones, follow the procedure "Headphone" on page 23.*
- *For further details, refer to manuals provided with the devices you are connecting.*
- *Connecting cables are not supplied.*
- *This TV set has external device connectors to which you can connect external devices. **However, there are some differences** in functions among them. Consult the table below before making connections.*

■ External terminals specifications

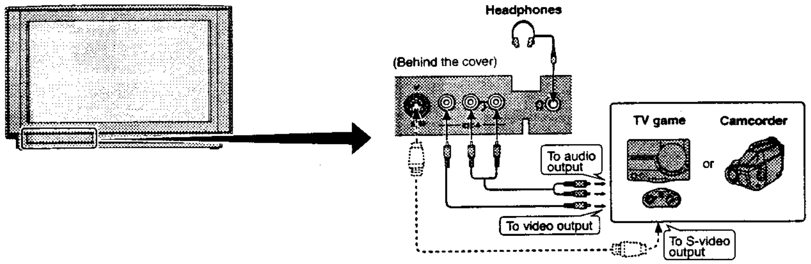
	EXT-1	EXT-2	EXT-3	EXT-4 (front)
VIDEO IN	√	√*1	√*1	√*1
VIDEO OUT	√*2	√*3	–	–
S-VIDEO IN	–	√*1	√*1	√*1
S-VIDEO OUT	–	–	–	–
RGB IN	√	–	–	–
AUDIO-L IN	√	√	√	√
AUDIO-R IN	√	√	√	√
AUDIO-L OUT	√*2	√*3	–	–
AUDIO-R OUT	√*2	√*3	–	–
T-V LINK	–	√	–	–
Others	• Automatic detection and switching of input mode. • Automatic detection and switching of ZOOM mode.			

*1 Choose VIDEO or S-VIDEO mode from the EXT Setting menu. For **details, see page 26 "EXT Setting"**.

*2 Only the TV broadcast is output. Even when a SUB-picture is displayed, the output TV broadcast PR **channel does not** change. However, when another channel is being watched in the SUB-picture, if the Swap function is used the output channel is changed.

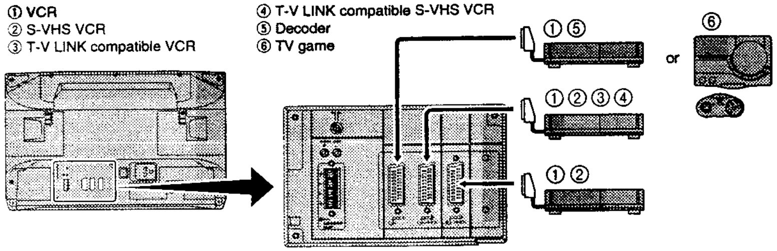
*3 TV broadcasts or inputs from other EXT terminals can be output. For details, **see page 26 "Dubbing"**.

■ Front panel connections



■ Rear panel connections

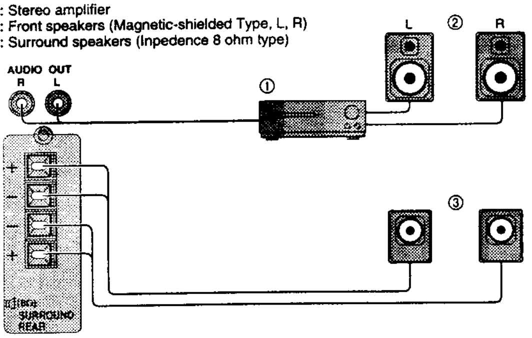
① VCR
② S-VHS VCR
③ T-V LINK compatible VCR
④ T-V LINK compatible S-VHS VCR
⑤ Decoder
⑥ TV game



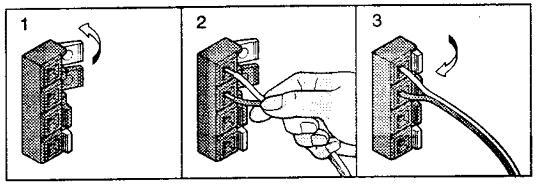
Connecting Speakers

Caution:
Do the following before connecting.
- *Turn the power of all the equipment off.*
- *Set the amplifier volume to low.*
- *Read the manuals provided with the amplifiers and speakers.*

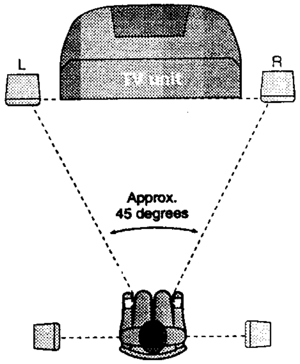
①: Stereo amplifier
②: Front speakers (Magnetic-shielded Type, L, R)
③: Surround speakers (Inpedence 8 ohm type)



(Terminals on rear)



■ Positioning the speakers



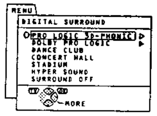
Notes:
- *Correctly connect the ⊕ speaker terminal to the ⊕ TV terminal, and the ⊖ speaker terminal to the ⊖ TV terminal.*
- *Though there is no L (left) and R (right) distinction for Surround Speakers, make sure that the ⊕ and ⊖ terminals on the speakers and the TV are correctly connected to the corresponding terminals as shown in the figure.*
- *Use the AUDIO OUT terminals for connecting an audio system. The volume output is controlled via the TV and The AUDIO OUT terminal output is not interrupted by headphone connection.*
- *When you want to use your Dolby Surround decoder, connect it to the AUDIO OUT terminals. Then set this TV's surround function to off.*
- *Use impedence 8 ohm type speakers for surround speakers ③.*
- *Use magnetic-shielded speakers for front speakers ② to prevent interference by the TV.*
- *For optimal effect, install the speakers ③ at least 1 metre above the heads of seated viewers.*

Connecting Surround Speakers

You can enjoy the Dolby Pro Logic surround sound with two additional surround speakers.

Note:
- *You can connect both your audio system and additional surround speakers. For details, refer to page 37.*

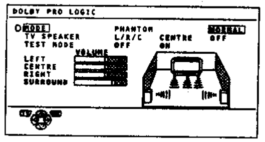
1. **Connect the surround speakers ③ to the SURROUND REAR terminal.**
2. **Turn the TV on.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose DIGITAL SURROUND and then press OK.**
   The Digital Surround menu appears.



Note:
- *If the Digital Surround does not appear in the MENU, disconnect the headphones from the TV.*

5. **Press ▼/▲ to choose DOLBY PRO LOGIC and then press ▶.**

The Dolby Pro Logic menu appears.



6. **Press ▼/▲ to choose MODE and ◀/▶ to choose NORMAL.**

Note:
- *If you do not want to use the center speaker on the TV, choose PHANTOM instead of NORMAL.*

7. **Press ▼/▲ to choose TV SPEAKER and ◀/▶ to choose L/R/C.**

Note:
- *When you set the MODE to PHANTOM, choose L/R.*

8. **Press ▼/▲ to choose TEST MODE and press ◀/▶ to choose ON.**
   Test signals are output alternately from the speakers.
9. **Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position.**

LEFT, RIGHT:
Front speaker L, R
CENTRE:
Centre speaker
SURROUND:
Surround speakers

Note:
- *When the Phantom mode is set, the volume of the Centre speaker cannot be adjusted.*

10. **Press OK.**
    This completes the setting.

Note:
- *The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV speaker setting in the Pro Logic 3D-Phonic menu and Sound Setting menu.*
  If you change the one of them, the others will be changed automatically.

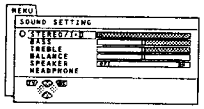
Connecting an Audio System

You can use your audio system as front speakers instead of the front speakers on the TV.

Note:
- *You can connect both your audio system and additional surround speakers. For details, refer to page 37.*

1. **Connect your stereo amplifier ① to the AUDIO OUT terminals.**
2. **Turn the TV on and set the volume to the lowest setting.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose SOUND SETTING. Then press OK.**

The Sound Setting menu appears.



Note:
- *When "SPEAKER" does not appear in the Sound Setting menu, press TV to exit the menu and press 3D twice to display "SURROUND OFF". Then, repeat this procedure from step 3.*

5. **Press ▼/▲ to choose SPEAKER and press ◀/▶ to choose OFF. Then press OK.**

To output sound from the TV speakers:
Set SPEAKER to ON.

6. **Press OK.**
   This completes the settings.
7. **Turn the stereo amplifier on and re-adjust the volume setting, then press ◀/▶ to adjust the volume.**

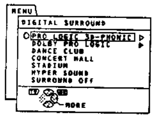
Notes:
- *Setting the volume of the stereo amplifier too high may damage the speakers.*
- *The SPEAKER setting in the Sound Setting menu is linked to the other TV Speaker setting in the Pro Logic 3D-Phonic menu and the Dolby Pro Logic menu.*
  If you change the one of them, the others will be changed automatically.
- *You can use the TV speakers as the centre speakers when you enjoy the Dolby Pro Logic 3D-Phonic surround sound. This method enhances spoken dialogue. For details, refer to page 24.*

Connecting both Your Audio System and Surround Speakers

When you connect both your audio system and the additional surround speakers, you can enjoy the Dolby Pro Logic Surround sound with four external speakers and also you can use the TV speakers as the centre speakers.

When you do not use the Dolby Pro Logic or Dolby Pro Logic 3D-Phonic function, you can use your audio system as front speakers instead of the front speakers on the TV.

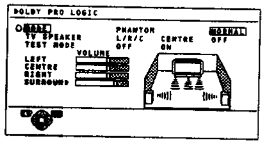
1. **Connect your stereo amplifier ① to the AUDIO OUT terminals and connect surround speakers ③ to the SURROUND REAR terminal.**
2. **Turn the TV on and set the volume to the normal setting.**
3. **Press OK.**
   The MENU appears.
4. **Press ▼/▲ to choose DIGITAL SURROUND and then press OK.**
   The Digital Surround menu appears.



Note:
- *If Digital Surround does not appear in the MENU, disconnect the headphones from the TV.*

5. **Press ▼/▲ to choose DOLBY PRO LOGIC and then press ▶.**

The DOLBY PRO LOGIC menu appears.



6. **Press ▼/▲ to choose an item and ◀/▶ to change the following settings.**
   Set MODE to NORMAL.
   Set TV SPEAKER to CENTRE.
   If you do not want to use the TV speakers as the centre speakers:
   Set MODE to PHANTOM and TV SPEAKER to OFF.
   PHANTOM mode omits the centre speaker.
7. **Turn the stereo amplifier on and re-adjust the volume setting.**

Note:
- *Setting the volume of the stereo amplifier too high may damage the speakers.*

8. **Press ▼/▲ to choose TEST MODE and ◀/▶ to choose ON.**
   Test signals are output alternately from the speakers.

Note:
- *If the test signal is too faint, adjust the volume of the stereo amplifier. However, setting the volume too high may damage the speakers.*

9. **Press ◀/▶ to adjust the level of each speaker so the volume levels match the listening position (the location of the viewer as described by the diagram on page 35).**

LEFT, RIGHT:
Front Speaker L, R
CENTRE:
Centre Speaker
SURROUND:
Surround Speakers

Notes:
- *When the Phantom mode is set, the volume of the Centre speaker cannot be adjusted.*
- *If the volume of the speakers does not match after adjusting the volume levels, adjust the volume of the stereo amplifier.*

10. **Press OK.**
    This completes the settings.

Note:
- *The TV SPEAKER setting in the Dolby Pro Logic menu is linked to the other TV Speaker setting in the Pro Logic 3D-Phonic menu and the Sound Setting menu.*
  If you change the one of them, the others will be changed automatically.

Channel Table

- The following table shows the relationship between the displayed CH channel number and the actual channel number.

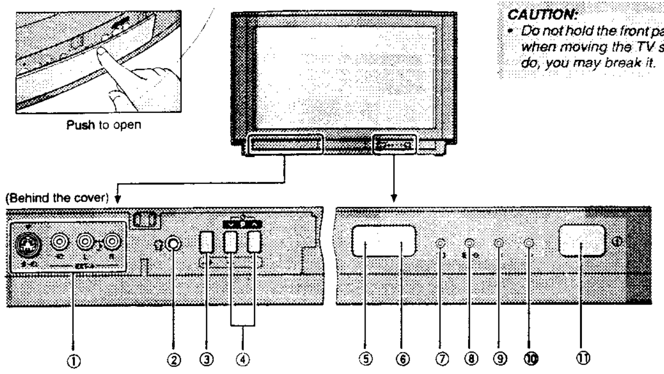
CH	Channel	CH	Channel	CH	Channel	CH	Channel
CH 21	E21	CH 34	E34	CH 47	E47	CH 60	E60
CH 22	E22	CH 35	E35	CH 48	E48	CH 61	E61
CH 23	E23	CH 36	E36	CH 49	E49	CH 62	E62
CH 24	E24	CH 37	E37	CH 50	E50	CH 63	E63
CH 25	E25	CH 38	E38	CH 51	E51	CH 64	E64
CH 26	E26	CH 39	E39	CH 52	E52	CH 65	E65
CH 27	E27	CH 40	E40	CH 53	E53	CH 66	E66
CH 28	E28	CH 41	E41	CH 54	E54	CH 67	E67
CH 29	E29	CH 42	E42	CH 55	E55	CH 68	E68
CH 30	E30	CH 43	E43	CH 56	E56	CH 69	E69
CH 31	E31	CH 44	E44	CH 57	E57		
CH 32	E32	CH 45	E45	CH 58	E58		
CH 33	E33	CH 46	E46	CH 59	E59		

TV Buttons and Parts

Front Panel

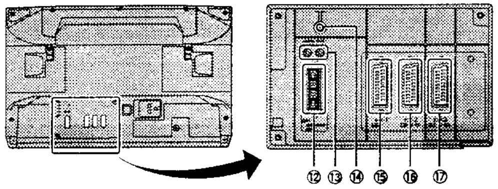
CAUTION:

- *Do not hold the front panel cover when moving the TV set, if you do, you may break it.*



① EXT-4 terminals	pages 26, 34
② Headphone jack (mini jack)	pages 23, 25, 34
③ ◁ (Volume) button	page 9
④ P ∨/∧ buttons / ◁ –/+ buttons	page 9
⑤ Remote control sensor	
⑥ ECO sensor	
⑦ 3D lamp	pages 12, 23, 25
⑧ ECO lamp	page 19
⑨ Sleep timer lamp	page 27
⑩ Power lamp	pages 5, 8
⑪ Main power button	pages 5, 8

Rear Panel



⑫ SURROUND REAR terminal	page 35
⑬ AUDIO OUT terminal	page 35
⑭ Aerial socket	page 4
⑮ EXT-1 terminal	pages 4, 26, 34
⑯ EXT-2 terminal	pages 4, 7, 26, 34
⑰ EXT-3 terminal	pages 26, 34

Troubleshooting

- If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

IMPORTANT
- Review all instructions in this manual

	Problem	Action
■ GENERAL	The TV cannot be turned on.	• Insert the plug in an AC socket. • Turn the main power on. (See page 8.)
	No picture or sound.	• Check aerial connections. (See page 4.) • Choose the correct input mode. (See page 9.) • Choose the correct colour system manually. (See page 20.)
	The TV shuts off automatically.	• Did you set the Sleep Timer? (See page 27.)
	Inoperable remote control.	• Replace the batteries. (See page 4.) • Insert the batteries correctly. (See page 4.) • Use the remote control within about 7 metres of the TV.
	MENU can not be displayed.	• Are you watching the Teletext screen? None of the Menu operations are possible when viewing a teletext programme. Perform the Menu operation in the TV mode.
■ PICTURE	Poor colour.	• Adjust COLOUR and BRIGHT. (See page 19.) • Choose the correct colour system manually. (See page 20.)
	The ZOOM mode suddenly changes.	• The AUTO mode is working. (See page 11.)
	The picture is tilted .	• Correct the tilted picture. (See page 21.)
	Unnatural colours appear	• Reduce the unnatural colouring. (See page 21.)
	The SUB-picture image is disordered.	• If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered.
	The top and bottom of the MAIN-picture or SUB-picture are missing.	• If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
	The SUB-picture display suddenly disappears.	• If an external device is operated, the SUB-picture may disappear. If this happens, press ▣e more and redisplay the SUB-picture.
	The same image is displayed in both the MAIN-picture and SUB-picture.	• If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN-picture, the same image is displayed in both the MAIN-picture and SUB picture. Press SWAP again.
	Lines or streaks in picture (interference).	• Move the components apart until the interference is eliminated. • Reposition the aerial.
	Spots (crosstalk).	• Reposition the aerial. • Replace with an aerial with better directionality.
	Double pictures (ghosts).	• Reposition the aerial. • Replace with an aerial with better directionality.
	Snowy pictures (noise).	• Check aerial connections. • Redirect the aerial. • Replace or repair the aerial.

	Problem	Action
■ SOUND	The screen turns blue.	• Is the Blue Back function set to ON? (See page 27.)
	No sound from the TV's speakers.	• Disconnect the headphones. • If you want to have sound come from both the TV's speaker and headphones. See page 23. • Set SPEAKER to ON. (See page 22.)
	The headphone volume level cannot be adjusted.	• It cannot be adjusted with the ◀/▶ buttons or ◺ (volume) –/+ buttons. Adjust it with the VOLUME function in the HEADPHONE menu. (See page 23.)
	The sound from the TV does not stop even if the headphones are connected.	• TV SPEAKER in the HEADPHONE menu is set to ON. Change the setting to OFF. (See page 23.)
	No stereo sound.	• Change STEREO/I•II to CD mode. (See page 22.) • Is TV SPEAKER on the Pro Logic 3D-Phonic menu or Dolby Pro Logic menu set to CENTRE? Change the TV SPEAKER setting to L/R/C. (See pages 24 and 36.) • When the SUB-picture is in TV mode, the SUB-picture sound is mono only.
	No "SUB-I" or "SUB-II" sound in a multi-sound broadcast.	• Change STEREO/I•II to the correct mode. (See page 22.) • The multi-sound function does not work for the SUB-picture sound.
	Surround function does not function properly.	• Dolby Pro Logic Surround and Pro Logic 3D-Phonic work properly only with Dolby Surround encoded programmes. • Functions other than Hyper Sound and the Headphone surround functions work properly only with stereo programmes. • Hyper Sound works properly only with mono programmes. • None of the surround sound functions work for the SUB-picture sound.
	The Power Bass function does not work.	• Are you listening to the SUB-picture sound? The Power Bass function does not work for the SUB-picture sound.
■ TELETEXT	No teletext reception.	• Tune to a channel that has teletext. (See page 16.) • Videotaping teletext is not recommended as it may not record correctly.
	The current time is not displayed.	• Tune to a channel that has teletext. (See page 16.)

The following are normal and are NOT malfunctions:
- When touching the picture tube surface, you might feel a slight charge of static electricity. This is because the picture tube contains static electricity; it does not affect the human body.
- The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a still, bright image (of a white dress, for example) appears on the screen, the image may be coloured. This problem occurs in all picture tubes, and as the bright image disappears, the colour also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the power cord to AC socket and turn on the main power again.

Specifications

Model Item	AV-32WFP1EK	
TV RF systems	*CCIR I*	
Colour systems	*PAL (NTSC 3.58 / 4.43 MHz only in EXT modes)*	
Channels	*E21-E69*	
Sound-multiplex systems	*NICAM (I) system*	
Teletext systems	*Fastext (United Kingdom system) / WST (standard system)*	
Power requirements	*AC 220 – 240 V, 50 Hz*	
Power consumption	*Maximum 290 W, Average 164 W, Standby 1.2 W*	
Picture tube size	*Visible area 76 cm (measured diagonally)*	
Audio output	*Rated Power output: 20 W + 20 W + 5 W*	
Speakers	*10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm) oval × 1*	
External input / output	*EXT-1, EXT-2, EXT-3*	*21-pin Euroconnector (SCART)*
	EXT-4	*VIDEO IN (RCA)* *AUDIO L / R IN (RCA)* *S-VIDEO IN (Mini Din 4-pin)*
	AUDIO OUT	*(Variable out (0-1 Vrms), low impedance)* *FRONT L/R output (RCA)*
	SURROUND REAR	*Speaker terminals for external surround speakers (Impedance 8 ohm) only.* *Rated power output: 7.5 W + 7.5W*
	Headphone jack (stereo mini jack, dia. 3.5 mm)	
Dimensions (W × H × D)	*855 mm × 550 mm × 568 mm*	
Weight	*59.5 kg*	
Accessories	*Remote control unit RM-C786 × 1* *AAA (R03) dry cell battery × 2*	

Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

©1999 VICTOR COMPANY OF JAPAN, LIMITED

LCT0340-001A-U
0599-T-CR-JMUK

VP9906
DP2052

CONTENTS

SEMICONDUCTOR SHAPES · · · · · · · · · · 2-2
BLOCK DIAGRAM · · · · · · · · · · 2-3

CIRCUIT DIAGRAMS

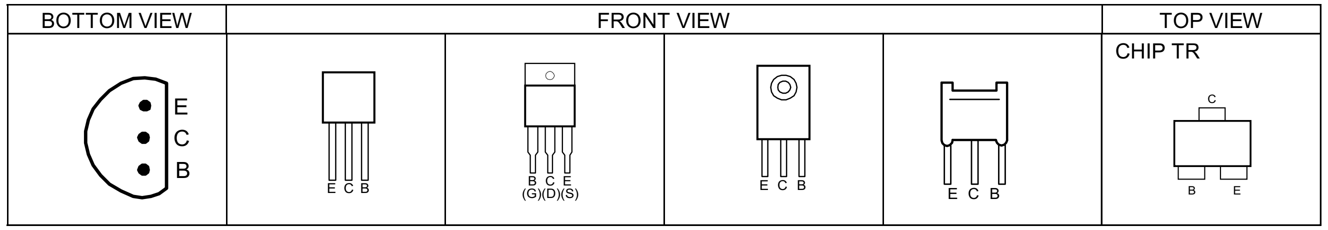
MAIN PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-5
POWER/DEF PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-11
SUB MICON & AUTO PANORAMA PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-13
100Hz PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-15
IF PWB CIRCUIT DIAGRAM [AV-32WFP1EU(A)/ AV-32WFP1EUI(A)] · · · · · · · · · · 2-17
IF PWB CIRCUIT DIAGRAM [AV-32WFP1EK(A)] · · · · · · · · · · 2-19
PIP PWB CURCUIT DIAGRAM [AV-32WFP1EU(A)/ AV-32WFP1EUI(A)] · · · · · · · · · · 2-21
PIP PWB CURCUIT DIAGRAM [AV-32WFP1EK(A)] · · · · · · · · · · 2-23
AUDIO PWB CURCUIT DIAGRAM · · · · · · · · · · 2-25
DOLBY PWB CURCUIT DIAGRAM · · · · · · · · · · 2-27
FRONT CONTROL PWB CURCUIT DIAGRAM · · · · · · · · · · 2-29
CRT SOCKET PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-31
AV TERMINAL PWB CIRCUIT DIAGRAM · · · · · · · · · · 2-33

PATTERN DIAGRAMS

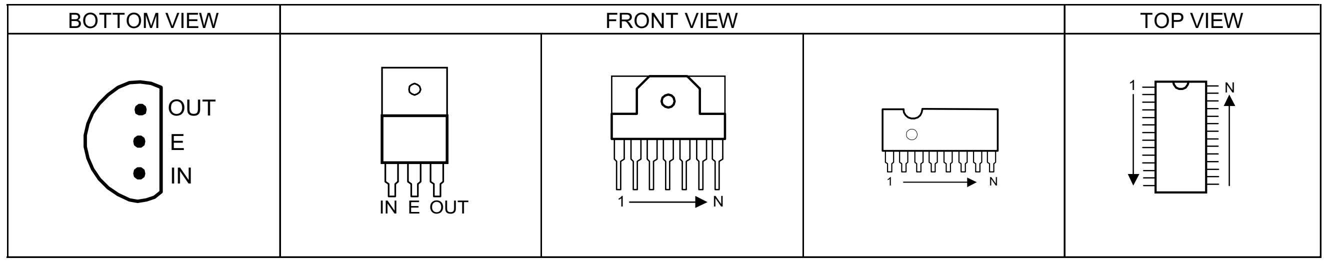
MAIN PWB PATTERN · · · · · · · · · · 2-35
POWER/DEF PWB PATTERN · · · · · · · · · · 2-37
AV TERMINAL PWB PATTERN · · · · · · · · · · 2-39
IF PWB PATTERN · · · · · · · · · · 2-40
CRT SOCKET PWB PATTERN · · · · · · · · · · 2-41
FRONT CONTROL PWB PATTERN · · · · · · · · · · 2-41
DOLBY PWB PATTERN [PARTS SIDE] · · · · · · · · · · 2-43
DOLBY PWB PATTERN [SOLDER SIDE] · · · · · · · · · · 2-44
100Hz PWB PATTERN [PARTS SIDE] · · · · · · · · · · 2-45
100Hz PWB PATTERN [SOLDER SIDE] · · · · · · · · · · 2-46
PIP PWB PATTERN [PARTS SIDE] · · · · · · · · · · 2-47
PIP PWB PATTERN [SOLDER SIDE] · · · · · · · · · · 2-48
SUB MICON & AUTO PANORAMA PWB PATTERN · · · · · · · · · · 2-49
AUDIO PWB PATTERN · · · · · · · · · · 2-50

SEMICONDUCTOR SHAPES

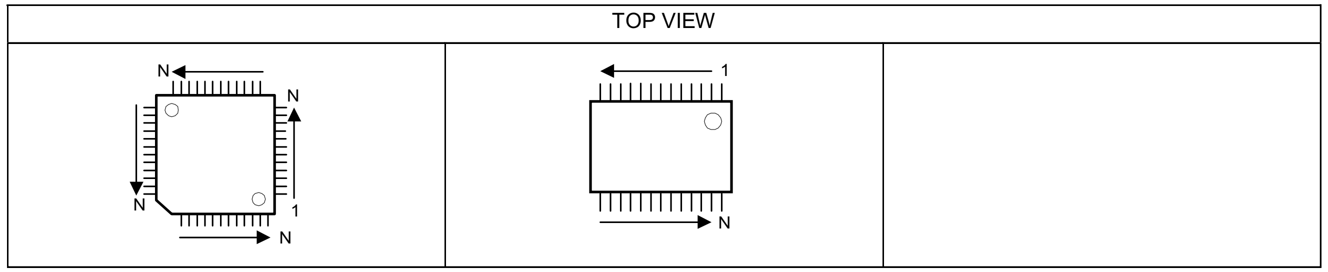
TRANSISTOR



IC



CHIP IC



REVISED EDITION

AV-32WFP1EU(A)
AV-32WFP1EUI(A) STANDARD CIRCUIT DIAGRAM
AV-32WFP1EK(A)

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal :PAL Colour bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester :DC 20kΩ/V
(4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
(5)Voltage values :All DC voltage values
∗Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value
No unit :[Ω]
K :[KΩ]
M :[MΩ]

●Rated allowable power
No indication :1/10[W]
Others :As specified

●Type
No indication :Carbon resistor
OMR :Oxide metal film resistor
MFR :Metal film resistor
MPR :Metal plate resistor
UNFR :Uninflammable resistor
FR :Fusible resistor
*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value
1 or higher :[pF]
less than 1 :[μF]

●Withstand voltage
No indication :DC50[V]
AC indicated :AC withstand voltage [V]
Others :DC withstand voltage [V]
*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type
No indication :Ceramic capacitor
MY :Mylar capacitor
MM :Metalized mylar capacitor
PP :Polypropylene capacitor
MPP :Metalized polypropylene capacitor
MF :Metalized film capacitor
TF :Thin film capacitor
BP :Bipolar electrolytic capacitor
TAN :Tantalum capacitor

(3)Coils

No unit :[μH]
Others :As specified

(4)Power Supply

▬ :B1
■■■■ :B2
■□■□ :9V
□□□□ :5V
*Respective voltage values are indicated

(5)Test point

◉ :Test point
○ :Only test point display

(6)Connecting method

▭ :Connector
○ :Wrapping or soldering
→≻ →⊁ :Receptacle

(7)Ground symbol

⊥ :LIVE side ground
⏚ :ISOLATED(NEUTRAL) side ground
⏚ :EARTH ground
▽ :DIGITAL ground

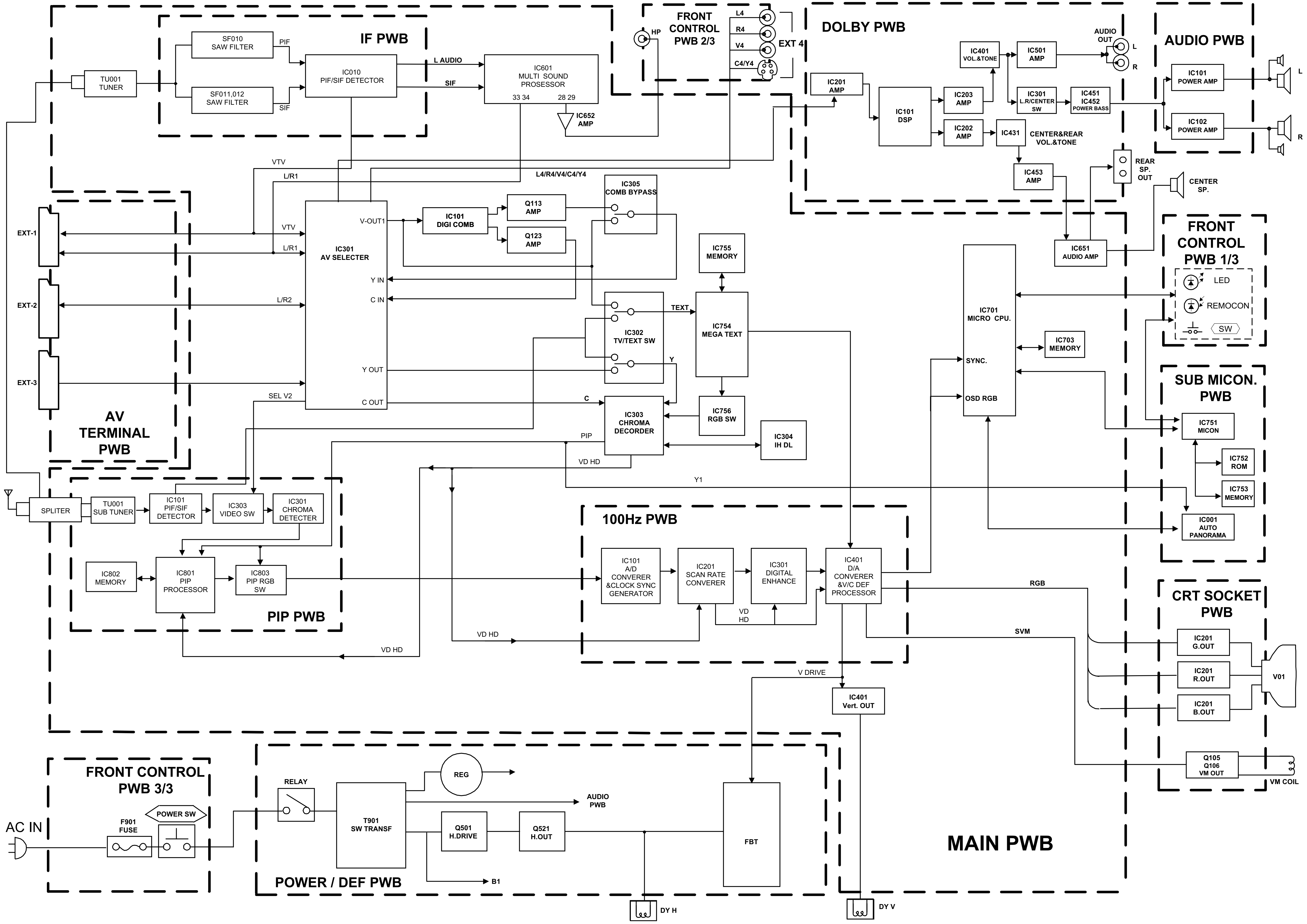
5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

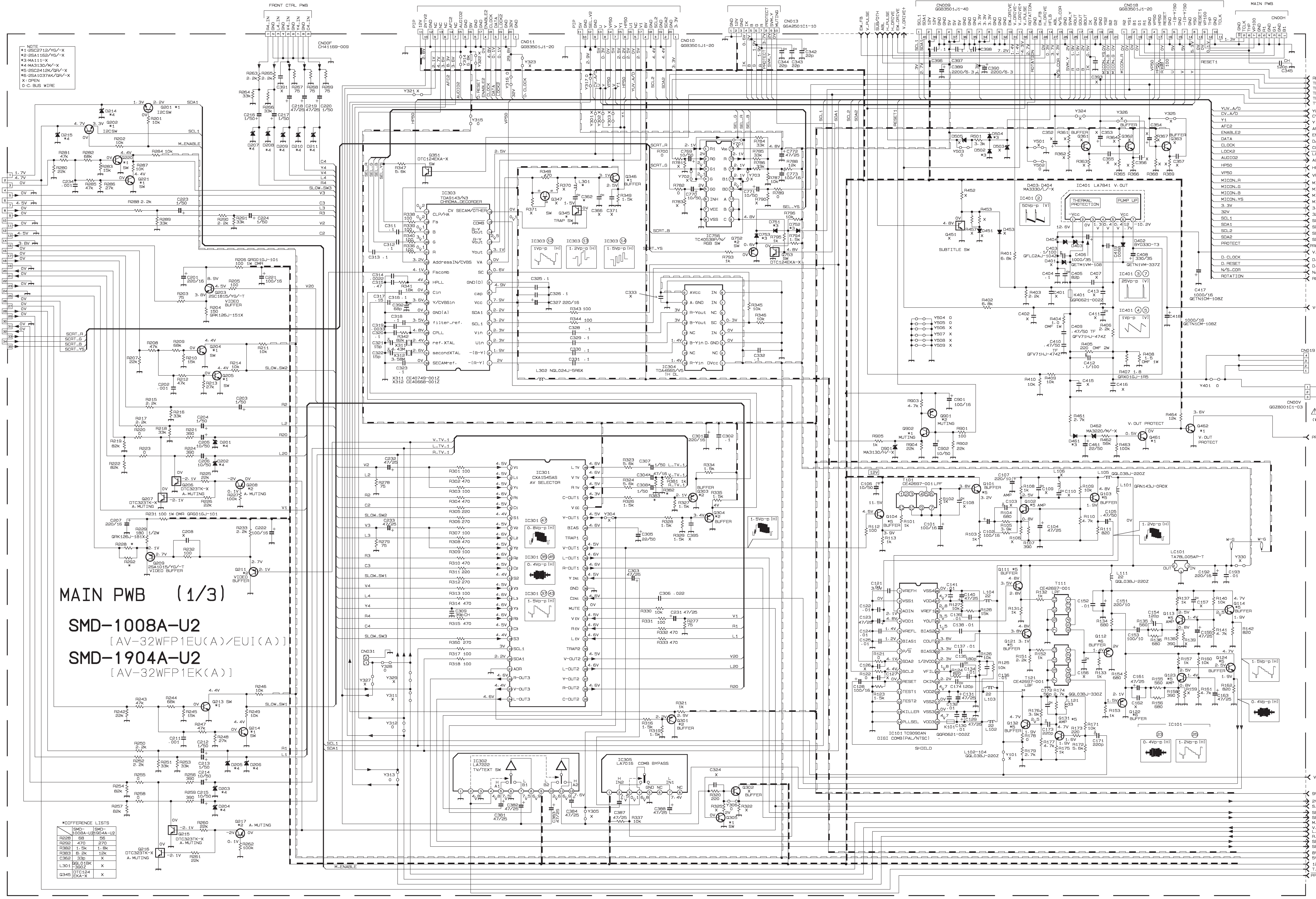
◇**Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

BLOCK DIAGRAM


IF PWB
TU001
TUNER
SF010
SAW FILTER
SF011,012
SAW FILTER
PIF
SIF
IC010
PIF/SIF DETECTOR
L AUDIO
SIF
IC601
MULTI SOUND
PROSESSOR
33 34
28 29
IC652
AMP
FRONT
CONTROL
PWB 2/3
HP
L4
R4
V4
C4/Y4
EXT 4
DOLBY PWB
IC201
AMP
IC101
DSP
IC203
AMP
IC202
AMP
IC401
VOL.&TONE
IC501
AMP
AUDIO
OUT
L
R
IC301
L.R/CENTER
SW
IC451
IC452
POWER BASS
IC431
CENTER&REAR
VOL.&TONE
IC453
AMP
REAR
SP.
OUT
CENTER
SP.
AUDIO PWB
IC101
POWER AMP
IC102
POWER AMP
L
R
VTV
L/R1
L4/R4/V4/C4/Y4
EXT-1
EXT-2
EXT-3
VTV
L/R1
L/R2
SEL V2
AV
TERMINAL
PWB
IC301
AV SELECTER
V-OUT1
Y IN
C IN
Y OUT
C OUT
IC101
DIGI COMB
Q113
AMP
Q123
AMP
IC305
COMB BYPASS
IC755
MEMORY
IC302
TV/TEXT SW
TEXT
Y
IC754
MEGA TEXT
C
IC303
CHROMA
DECORDER
IC756
RGB SW
IC304
IH DL
PIP
VD HD
Y1
IC651
AUDIO AMP
IC701
MICRO CPU.
SYNC.
OSD RGB
IC703
MEMORY
FRONT
CONTROL
PWB 1/3
LED
REMOCON
SW
SUB MICON.
PWB
IC751
MICON
IC752
ROM
IC753
MEMORY
IC001
AUTO
PANORAMA
SPLITER
TU001
SUB TUNER
IC101
PIF/SIF
DETECTOR
IC303
VIDEO SW
IC301
CHROMA
DETECTER
IC802
MEMORY
IC801
PIP
PROCESSOR
IC803
PIP RGB
SW
PIP PWB
VD HD
VD HD
100Hz PWB
IC101
A/D
CONVERER
&CLOCK SYNC
GENERATOR
IC201
SCAN RATE
CONVERER
IC301
DIGITAL
ENHANCE
IC401
D/A
CONVERER
&V/C DEF
PROCESSOR
VD
HD
RGB
SVM
CRT SOCKET
PWB
IC201
G.OUT
IC201
R.OUT
IC201
B.OUT
V01
Q105
Q106
VM OUT
VM COIL
V DRIVE
IC401
Vert. OUT
FRONT CONTROL
PWB 3/3
AC IN
F901
FUSE
POWER SW
RELAY
T901
SW TRANSF
REG
AUDIO
PWB
Q501
H.DRIVE
Q521
H.OUT
B1
FBT
POWER / DEF PWB
MAIN PWB
DY H
DY V

CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAM (1/3)

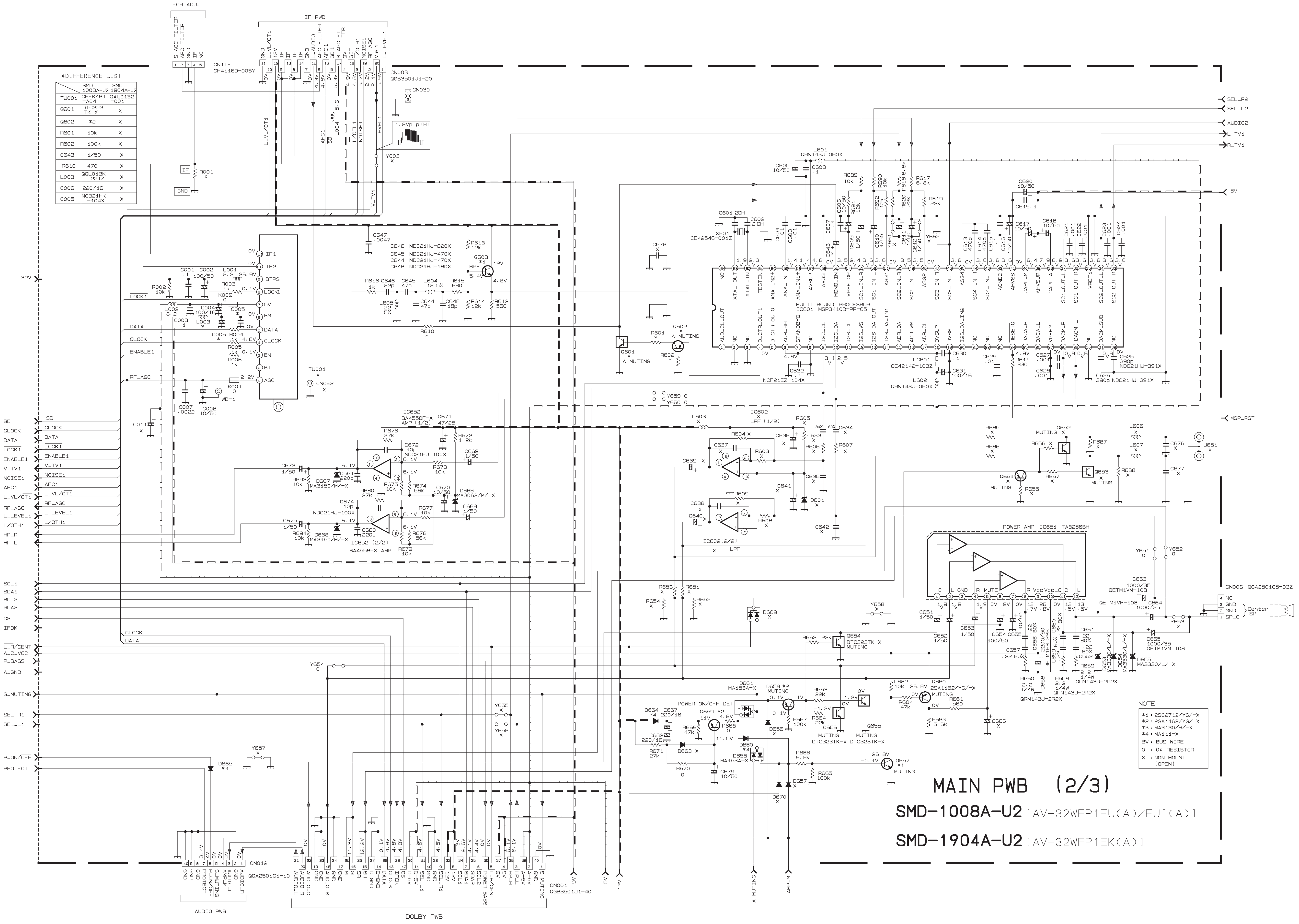

MAIN PWB (1/3)
SMD-1008A-U2
[AV-32WFP1EU(A)/EUI(A)]
SMD-1904A-U2
[AV-32WFP1EK(A)]
FRONT CTRL PWB
PIP PWB
CRTSKT PWB
100Hz PWB
MAIN PWB
AV PWB
CN008
CN00F
CN011
CN010
CN013
CN009
CN018
CN00H
CN019
CN00V
IC301 CXA1545AS AV SELECTOR
IC303 TDA9143/N3 CHROMA DECODER
IC304 TDA4665/V5 1H DL
IC756 TC4053BP(N) RGB SW
IC401 LA7841 V.OUT
IC302 LA7222 TV/TEXT SW
IC305 LA7016 COMB BYPASS
IC101 TC9090AN DIGI COMB(PAL/NTSC)
LC101 TA78L005AP-T
DY01 VERT.
(Within PICTURE TUBE)
SHIELD

NOTE
*1:2SC2712/YG/-X
*2:2SA1162/YG/-X
*3:MA111-X
*4:MA3130/M/-X
*5:2SC2412K/QR/-X
*6:2SA1037AK/QR/-X
X: OPEN
0:C.BUS WIRE

*DIFFERENCE LISTS

	SMD-1008A-U2	SMD-1904A-U2
R228	68	56
R292	470	270
R382	1.5k	1.8k
R383	8.2k	12k
C362	33p	X
L301	QQL01BK-390Z	X
Q345	DTC124EKA-X	X

MAIN PWB CIRCUIT DIAGRAM (2/3)


FOR ADJ.
S.AGC FILTER
AFC FILTER
GND
IF
NC
CN1IF
CH41169-005Y
IF PWB
CN003
QGB3501J1-20
CN030
1.8Vp-p(H)
Y003
R001
IF
GND
32V
LOCK1
DATA
CLOCK
ENABLE1
RF_AGC
TU001
CN0E2
WB-1
K001
K009
IF1
IF2
BTPS
LOCK
5V
BM
DATA
CLOCK
EN
BT
AGC
C647 .0047
C646 NDC21HJ-820X
C645 NDC21HJ-470X
C644 NDC21HJ-470X
C648 NDC21HJ-180X
Q603 *1 BPF
R610
IC652 BA4558F-X AMP (1/2)
IC652 (2/2) BA4558-X AMP
D667 MA3150/M/-X
D668 MA3150/M/-X
D666 MA3062/M/-X
SD
CLOCK
DATA
LOCK1
ENABLE1
V_TV1
NOISE1
AFC1
L_VL/OT1
RF_AGC
L_LEVEL1
L/OTH1
HP_R
HP_L
SCL1
SDA1
SCL2
SDA2
CS
IFOK
L_R/CENT
A_C_VCC
P_BASS
A_GND
S_MUTING
SEL_R1
SEL_L1
P_ON/OFF
PROTECT
Y654
Y655
Y656
Y657
D665 *4
CN012
QGA2501C1-10
AUDIO PWB
CN001
QGB3501J1-40
DOLBY PWB
6V
5V
12V
A_MUTING
AMP_M
L601 QRN143J-0R0X
X601 CE42546-001Z
MULTI SOUND PROCESSOR
IC601 MSP3410D-PP-C5
Q601 * A.MUTING
Q602 * A.MUTING
LC601 CE42154-103Z
L602 QRN143J-0R0X
NCF21EZ-104X
C625 390p NDC21HJ-391X
C626 390p NDC21HJ-391X
Y659
Y660
SEL_R2
SEL_L2
AUDIO2
L_TV1
R_TV1
8V
MSP_RST
L603
IC602 LPF (1/2)
IC602(2/2) LPF
D601
Q652 MUTING
Q651 MUTING
Q653 MUTING
L606
L607
J651
POWER AMP IC651 TA8256BH
Y651
Y652
Y653
Y658
C663 1000/35 QETM1VM-108
C664 1000/35 QETM1VM-108
C665 1000/35 QETM1VM-108
CN00S QGA2501C5-03Z
Center SP
D669
Q654 DTC323TK-X MUTING
Q660 2SA1162/YG/-X MUTING
POWER ON/OFF DET
D661 MA153A-X
Q658 *2 MUTING
Q659 *2
Q656 MUTING DTC323TK-X
Q655 MUTING DTC323TK-X
D664 *4
D658 MA153A-X
D660 *4
Q657 *1 MUTING
D653 MA3330/L/-X
D654 MA3330/L/-X
D655 MA3330/L/-X
QRN143J-2R2X

*DIFFERENCE LIST

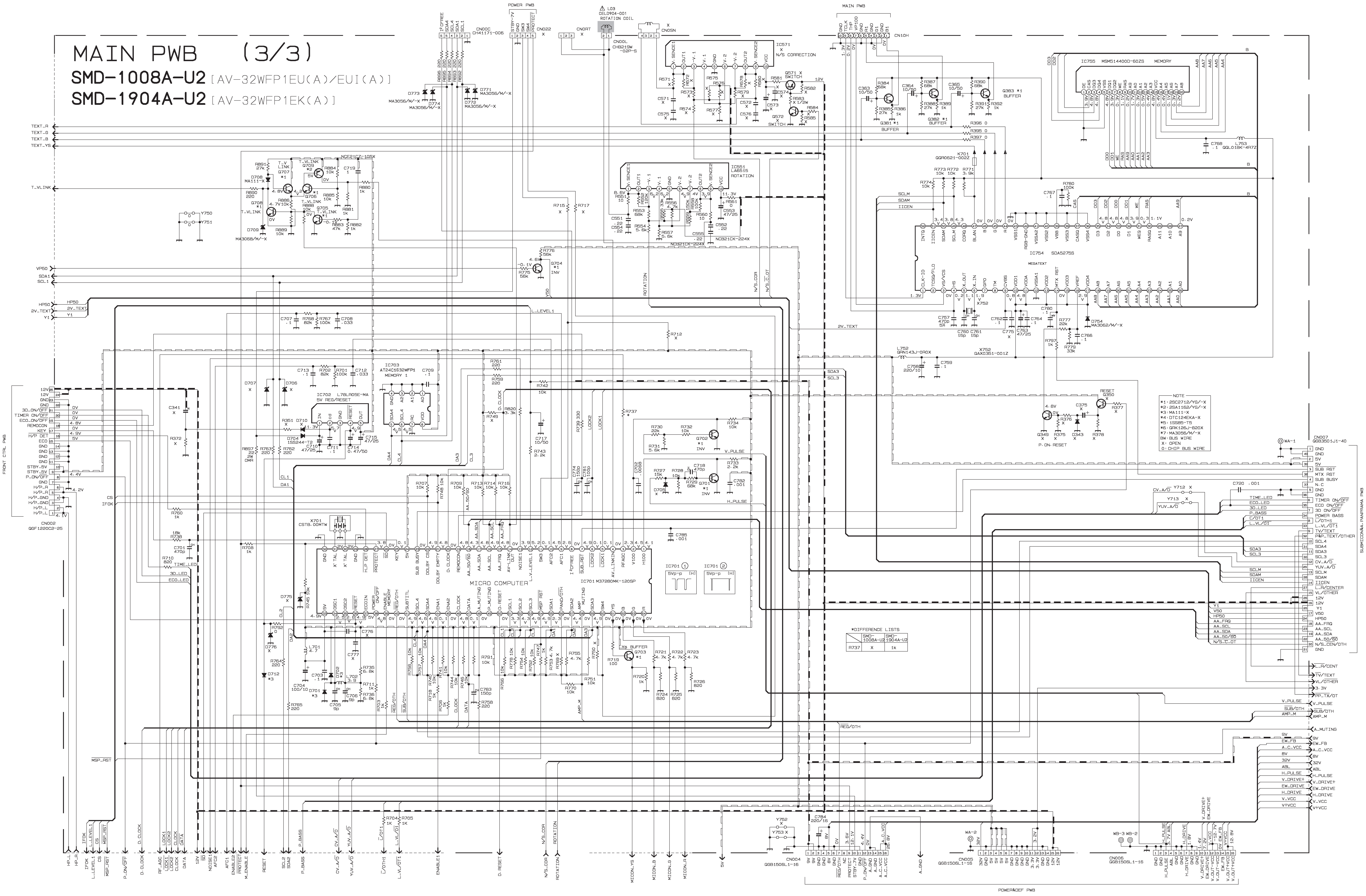
	SMD-1008A-U2	SMD-1904A-U2
TU001	CEEK481-A04	QAU0132-001
Q601	DTC323TK-X	X
Q602	*2	X
R601	10k	X
R602	100k	X
C643	1/50	X
R610	470	X
L003	QQL01BK-221Z	X
C006	220/16	X
C005	NCB21HK-104X	X

NOTE

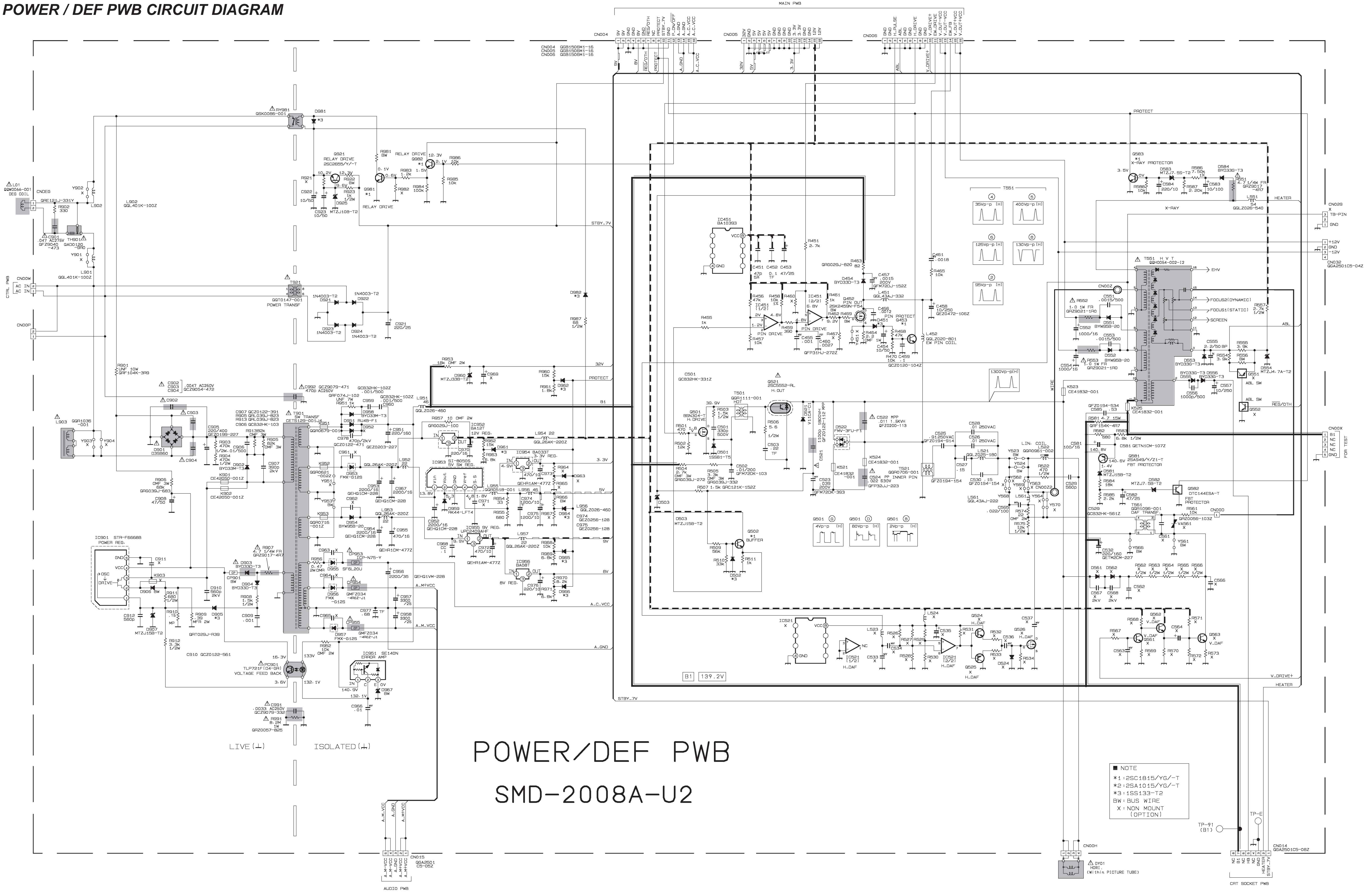
*1 : 2SC2712/YG/-X
*2 : 2SA1162/YG/-X
*3 : MA3130/H/-X
*4 : MA111-X
BW : BUS WIRE
0 : 0Ω RESISTOR
X : NON MOUNT (OPEN)

MAIN PWB (2/3)
SMD-1008A-U2 [AV-32WFP1EU(A)/EUI(A)]
SMD-1904A-U2 [AV-32WFP1EK(A)]

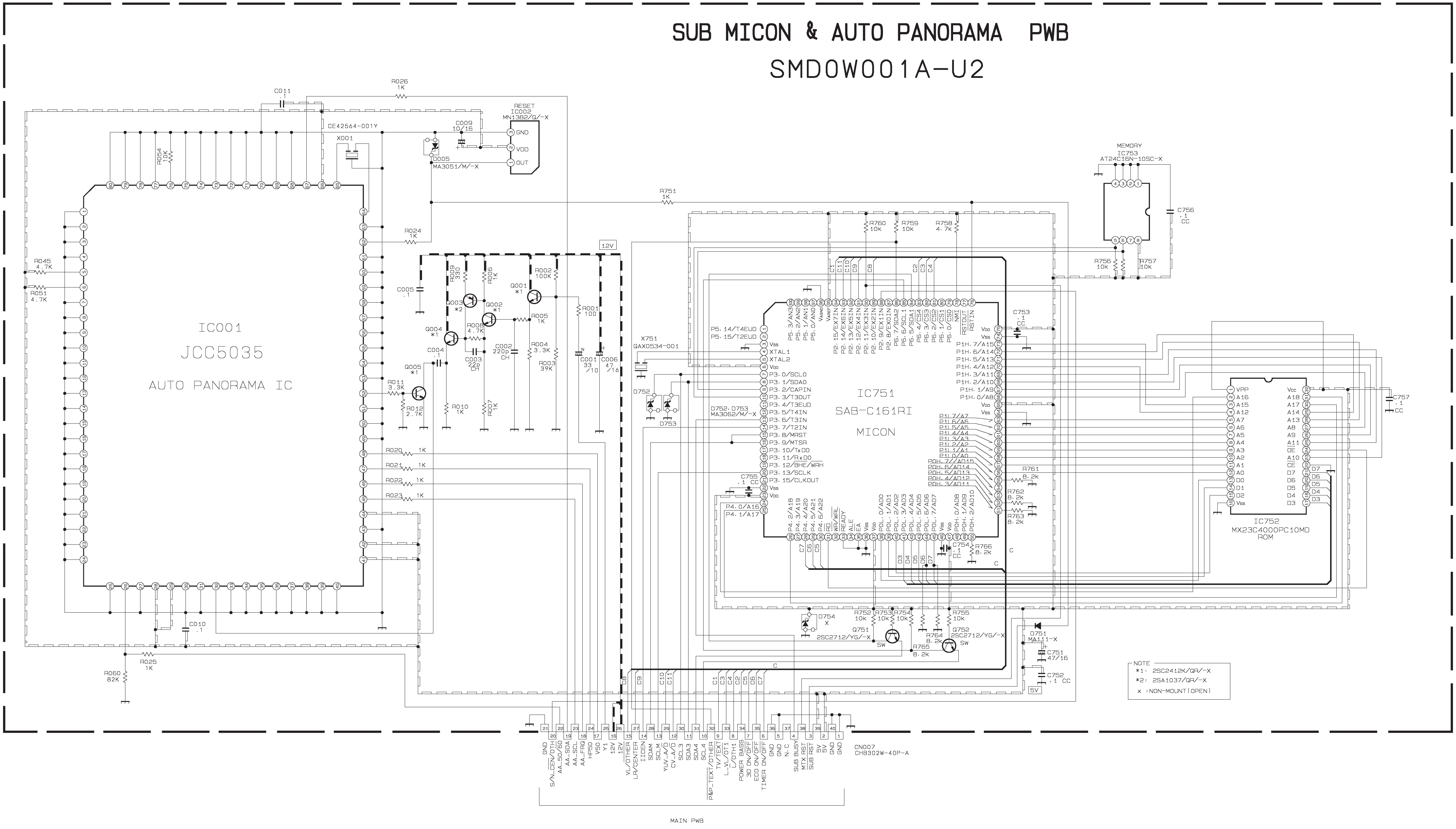
MAIN PWB CIRCUIT DIAGRAM (3/3)


MAIN PWB (3/3)
SMD-1008A-U2 [AV-32WFP1EU(A)/EUI(A)]
SMD-1904A-U2 [AV-32WFP1EK(A)]
IC701 M37280MK-120SP
MICRO COMPUTER
IC754 SDA5275S
MEGATEXT
IC755 MSM514400D-60ZS MEMORY
IC551 LA6515 ROTATION
IC571 X N/S CORRECTION
IC703 AT24C1632WFP1 MEMORY 1
IC702 L78LR05E-MA 5V REG/RESET
L03 CELD904-001 ROTATION COIL
CN00L CHB219W-02P-S
CN00C CH41171-006
CN022 X
CNORT X
CN0SN X
CN10H
CN002 QGF1220C2-25
CN004 QGB1506L1-16
CN005 QGB1506L1-16
CN006 QGB1506L1-16
CN007 QGB3501J1-40
FRONT CTRL PWB
POWER PWB
MAIN PWB
POWER&DEF PWB
SUBMICON&A.PANORAMA PWB
X701 CSTS.00MTW
X752 QAX0351-001Z
K701 QQR0521-002Z
L752 QRN143J-0R0X
L753 QQL01BK-4R7Z
Q350 RESET
P.ON RESET
Q763 BUFFER
Q381 BUFFER
Q382 BUFFER
Q383 BUFFER
Q571 SWITCH
Q572 SWITCH
Q702 INV
Q701 INV
Q704 INV
IC701 ①
IC701 ②
5Vp-p (H)
NOTE
*1: 2SC2712/YG/-X
*2: 2SA1162/YG/-X
*3: MA111-X
*4: DTC124EKA-X
*5: 1SS85-T5
*6: QRK126J-820X
*7: MA3056/M/-X
BW: BUS WIRE
X: OPEN
O: CHIP BUS WIRE
*DIFFERENCE LISTS
SMD-1008A-U2
SMD-1904A-U2
R737 X 1k

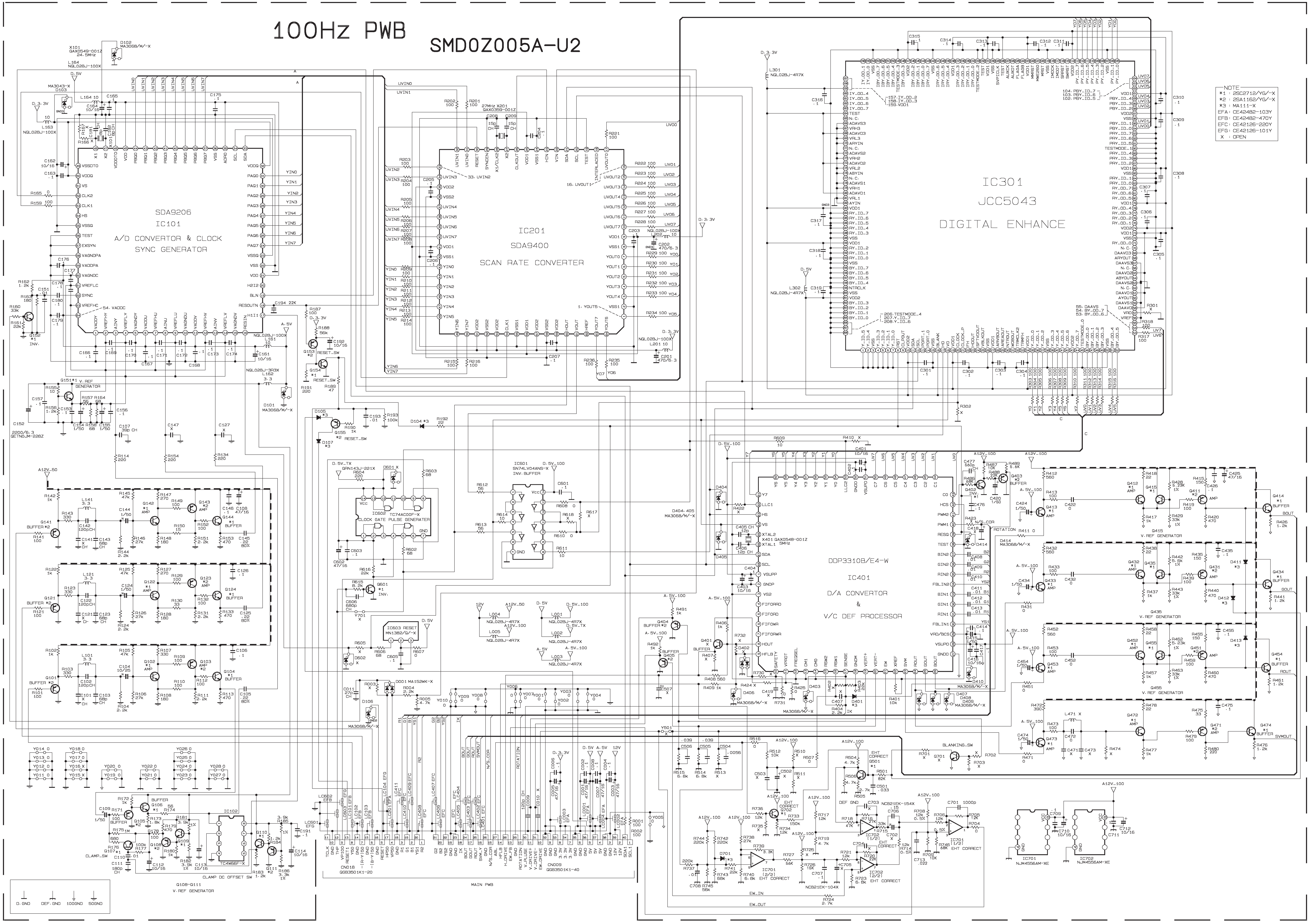
POWER / DEF PWB CIRCUIT DIAGRAM


MAIN PWB
CN004
CN005
CN006
POWER/DEF PWB
SMD-2008A-U2
■ NOTE
*1:2SC1815/YG/-T
*2:2SA1015/YG/-T
*3:1SS133-T2
BW:BUS WIRE
X:NON MOUNT (OPTION)
LIVE(⊥)
ISOLATED(⊥)
IC901 STR-F6668B POWER REG.
T901 SW TRANS
T551 H.V.T
IC451 BA10393
IC521
Q521 2SC5552-RL H.OUT
RELAY DRIVE
X-RAY PROTECTOR
FOCUS2(DYNAMIC)
FOCUS1(STATIC)
SCREEN
EHV
DEG COIL
POWER TRANSF
ERROR AMP
AUDIO PWB
CRT SOCKET PWB
DY01 HDR1 (Within PICTURE TUBE)
CN015
CN014
CN00H
TP-91 (B1)
TP-E
FOR TEST
B1 139.2V

SUB MICON & AUTO PANORAMA PWB CIRCUIT DIAGRAM

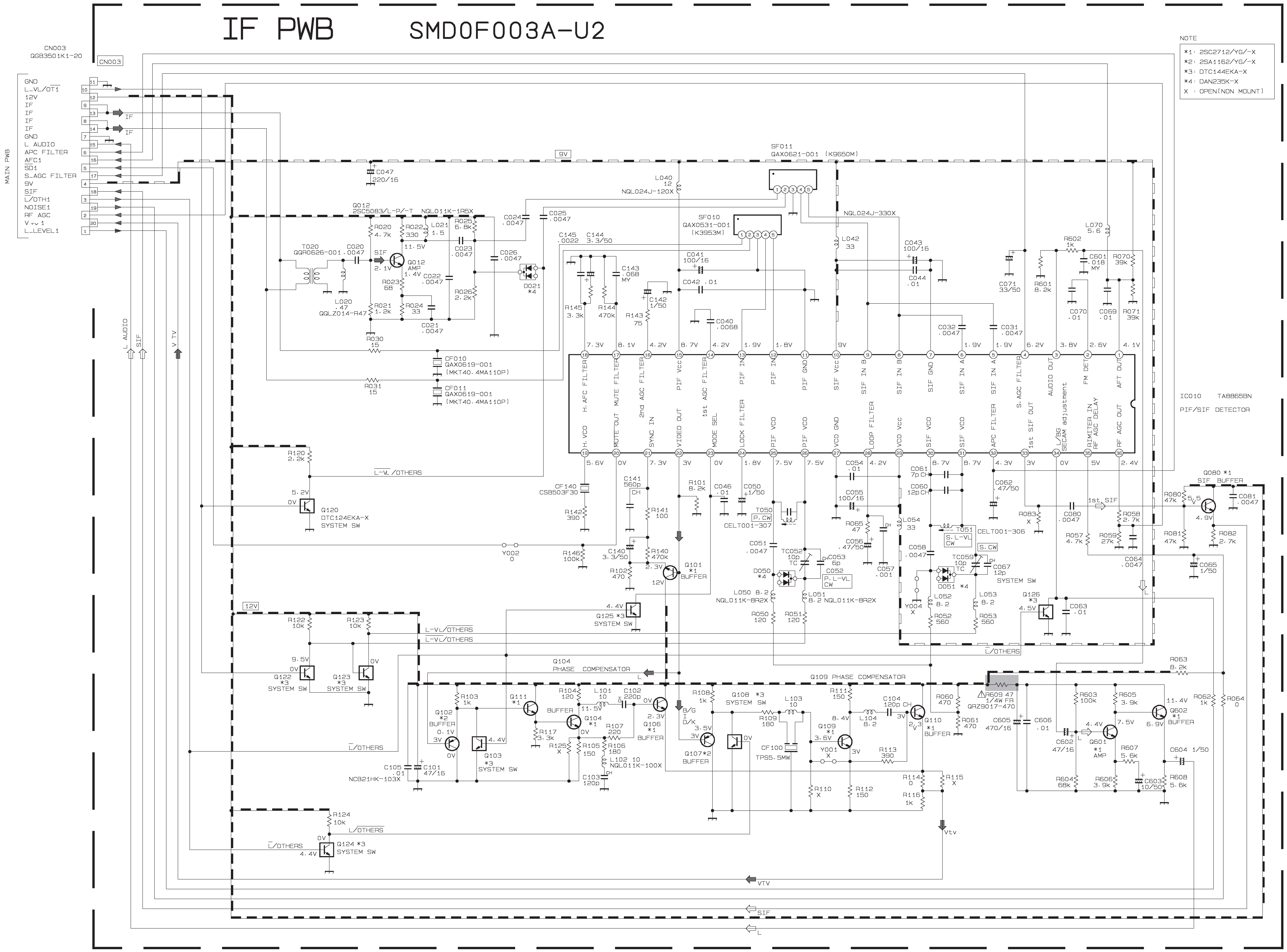

SUB MICON & AUTO PANORAMA PWB
SMD0W001A-U2
IC001
JCC5035
AUTO PANORAMA IC
RESET
IC002
MN1382/Q/-X
GND
VDD
OUT
CE42564-001Y
X001
D005
MA3051/M/-X
C009
10/16
C011
R026
1K
R054
R024
1K
R045
4.7K
R051
4.7K
C005
Q001
Q002
Q003
Q004
Q005
R001
100
R002
100K
R003
39K
R004
3.3K
R005
1K
R006
R008
4.7K
R009
330
R007
1K
R010
1K
R011
3.3K
R012
2.7K
C001
33
/10
C002
220p
CH
C003
22p
CH
C004
.1
C006
47
/16
12V
R020 1K
R021 1K
R022 1K
R023 1K
C010
.1
R025
1K
R060
82K
R751
1K
X751
GAX0534-001
D752
D753
D752,D753
MA3062/M/-X
C755
.1 CC
IC751
SAB-C161RI
MICON
R760
10K
R759
10K
R758
4.7K
MEMORY
IC753
AT24C16N-10SC-X
C756
.1
CC
R756
10K
R757
10K
C753
.1
CC
C754
.1
CC
R761
8.2K
R762
8.2K
R763
8.2K
R766
8.2K
C757
.1
CC
IC752
MX23C4000PC10MD
ROM
D754
X
R752
10K
R753
10K
R754
10K
R755
10K
Q751
2SC2712/YG/-X
SW
Q752
2SC2712/YG/-X
SW
R764
8.2K
R765
8.2K
D751
MA111-X
C751
47/16
C752
.1 CC
5V
NOTE
*1: 2SC2412K/QR/-X
*2: 2SA1037/QR/-X
X : NON-MOUNT [OPEN]
CN007
CHB302W-40P-A
GND
S/N_CEN/OTH
AA_50/60
AA_SDA
AA_SCL
AA_FRQ
HP50
V50
Y1
12V
12V
VL/OTHER
LR/CENTER
IICEN
SDAM
SCLM
YUV_A/D
CV_A/D
SCL3
SDA3
SDA4
SCL4
P&P_TEXT/OTHER
TV/TEXT
L_VL/OT1
L/OTH1
POWER BASS
3D ON/OFF
ECO ON/OFF
TIMER ON/OFF
GND
GND
N.C
SUB BUSY
MTX RST
SUB RST
5V
5V
GND
GND
MAIN PWB

100Hz PWB CIRCUIT DIAGRAM

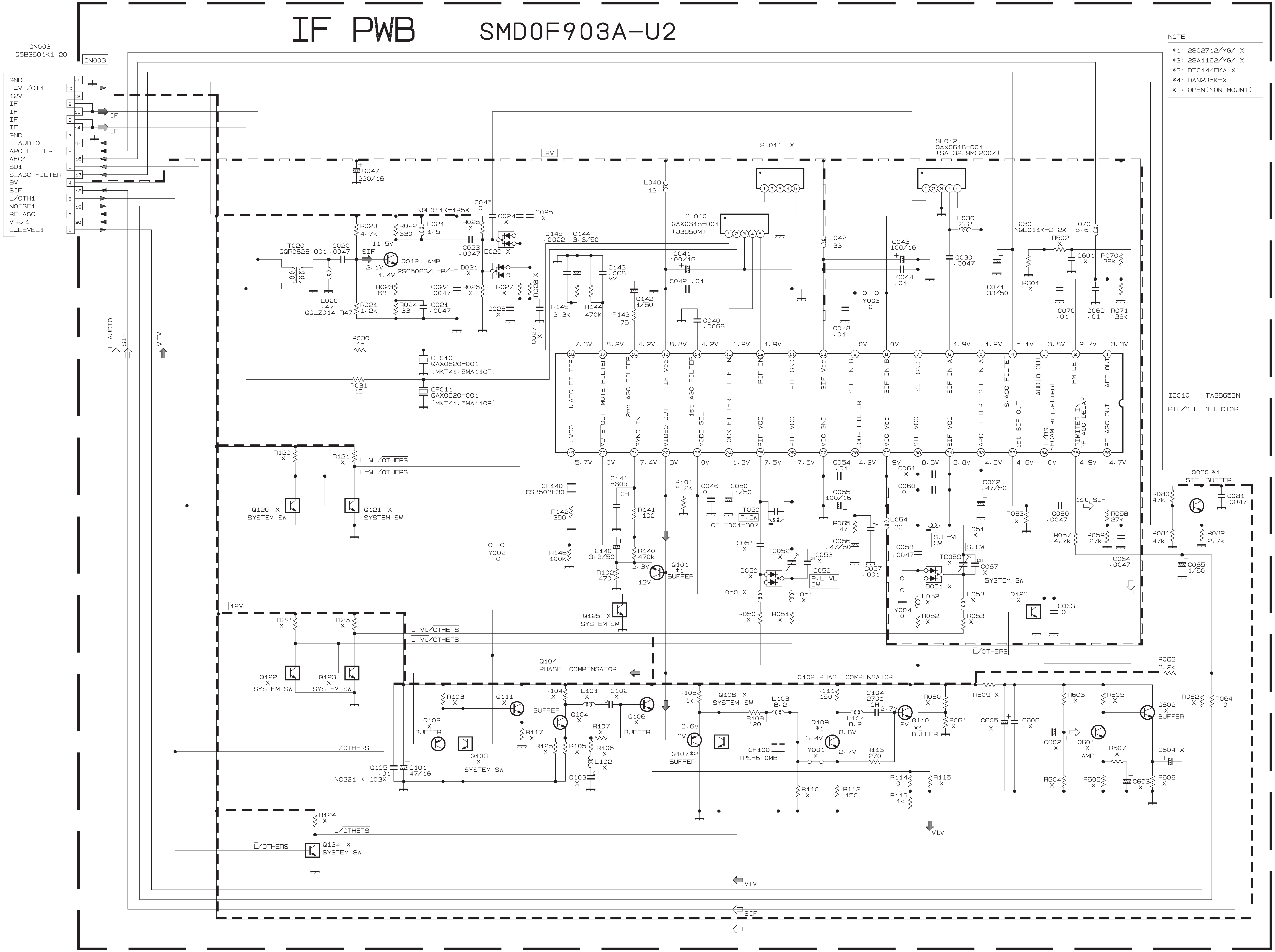

100Hz PWB
SMD0Z005A-U2
SDA9206
IC101
A/D CONVERTOR & CLOCK
SYNC GENERATOR
IC201
SDA9400
SCAN RATE CONVERTER
IC301
JCC5043
DIGITAL ENHANCE
DDP3310B/E4-W
IC401
D/A CONVERTOR
&
V/C DEF PROCESSOR
IC601
SN74LV04ANS-X
INV.BUFFER
IC602
TC74AC02F-X
CLOCK GATE PULSE GENERATOR
IC603 RESET
MN1382/Q/-X
IC102
TC4966F-X
IC701
NJM4556AM-XE
IC702
NJM4556AM-XE
CN016
QGB3501K1-20
CN009
QGB3501K1-40
MAIN PWB
G108-G111
V.REF GENERATOR
CLAMP DC OFFSET SW
V.REF GENERATOR
BUFFER
AMP
EHT CORRECT
BLANKING_SW
ROTATION
EW_IN
EW_OUT
D.GND
DEF.GND
100GND
50GND

NOTE
*1 : 2SC2712/YG/-X
*2 : 2SA1162/YG/-X
*3 : MA111-X
EFA : CE42482-103Y
EFB : CE42482-470Y
EFC : CE42126-220Y
EFG : CE42126-101Y
X : OPEN

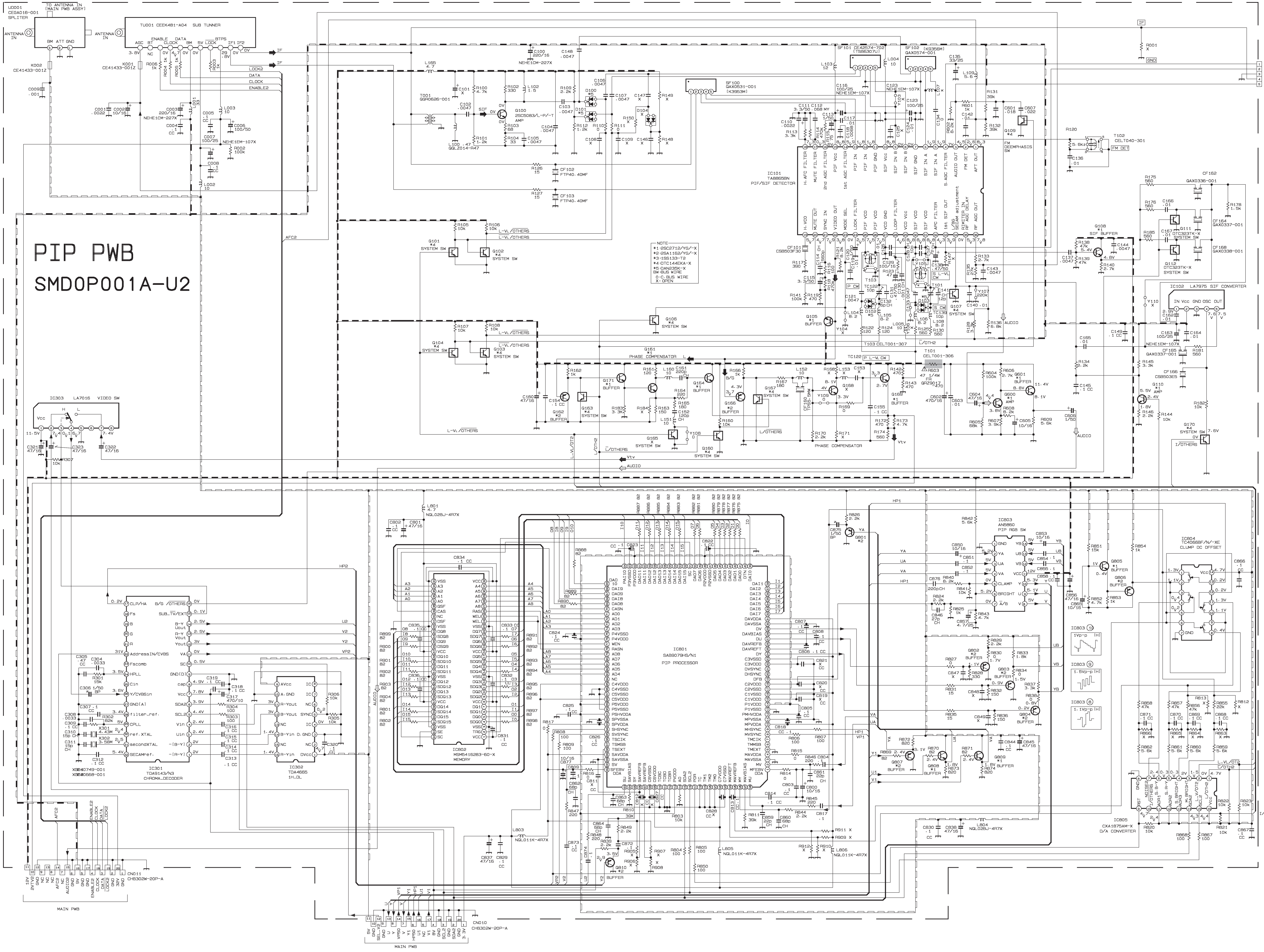
IF PWB CIRCUIT DIAGRAM [AV-32WFP1EU(A) / AV-32WFP1EUI(A)]


IF PWB SMD0F003A-U2
NOTE
*1: 2SC2712/YG/-X
*2: 2SA1162/YG/-X
*3: DTC144EKA-X
*4: DAN235K-X
X : OPEN(NON MOUNT)
CN003 QGB3501K1-20
MAIN PWB
GND
L-VL/OT1
12V
IF
IF
IF
IF
GND
L AUDIO
APC FILTER
AFC1
SD1
S-AGC FILTER
9V
SIF
L/OTH1
NOISE1
RF AGC
VTV 1
L-LEVEL1
SF011 QAX0621-001 (K9650M)
SF010 QAX0531-001 (K3953M)
Q012 2SC5083/L-P/-T NQL011K-1R5X
T020 QQR0626-001
CF010 QAX0619-001 (MKT40.4MA110P)
CF011 QAX0619-001 (MKT40.4MA110P)
IC010 TA8865BN
PIF/SIF DETECTOR
H.AFC FILTER
MUTE FILTER
2nd AGC FILTER
PIF Vcc
1st AGC FILTER
PIF IN
PIF IN
PIF GND
SIF Vcc
SIF IN B
SIF IN B
SIF GND
SIF IN A
SIF IN A
S.AGC FILTER
AUDIO OUT
FM DET
AFT OUT
H.VCO
MUTE OUT
SYNC IN
VIDEO OUT
MODE SEL
LOCK FILTER
PIF VCO
PIF VCO
VCO GND
LOOP FILTER
VCO Vcc
SIF VCO
SIF VCO
APC FILTER
1st SIF OUT
L/BG SECAM adjustment
RIMITER IN RF AGC DELAY
RF AGC OUT
Q080 *1 SIF BUFFER
Q120 DTC124EKA-X SYSTEM SW
Q101 *1 BUFFER
Q125 *3 SYSTEM SW
Q126 *3 SYSTEM SW
Q122 *3 SYSTEM SW
Q123 *3 SYSTEM SW
Q104 PHASE COMPENSATOR
Q109 PHASE COMPENSATOR
Q102 *2 BUFFER
Q103 *3 SYSTEM SW
Q111 *1 BUFFER
Q104 *1
Q106 *1 BUFFER
Q107 *2 BUFFER
Q108 *3 SYSTEM SW
Q109 *1
Q110 *1 BUFFER
Q601 *1 AMP
Q602 *1 BUFFER
Q124 *3 SYSTEM SW
CF100 TPS5.5MW
R609 47 1/4W FR QRZ9017-470
CELT001-307
CELT001-306
VTV
SIF
L

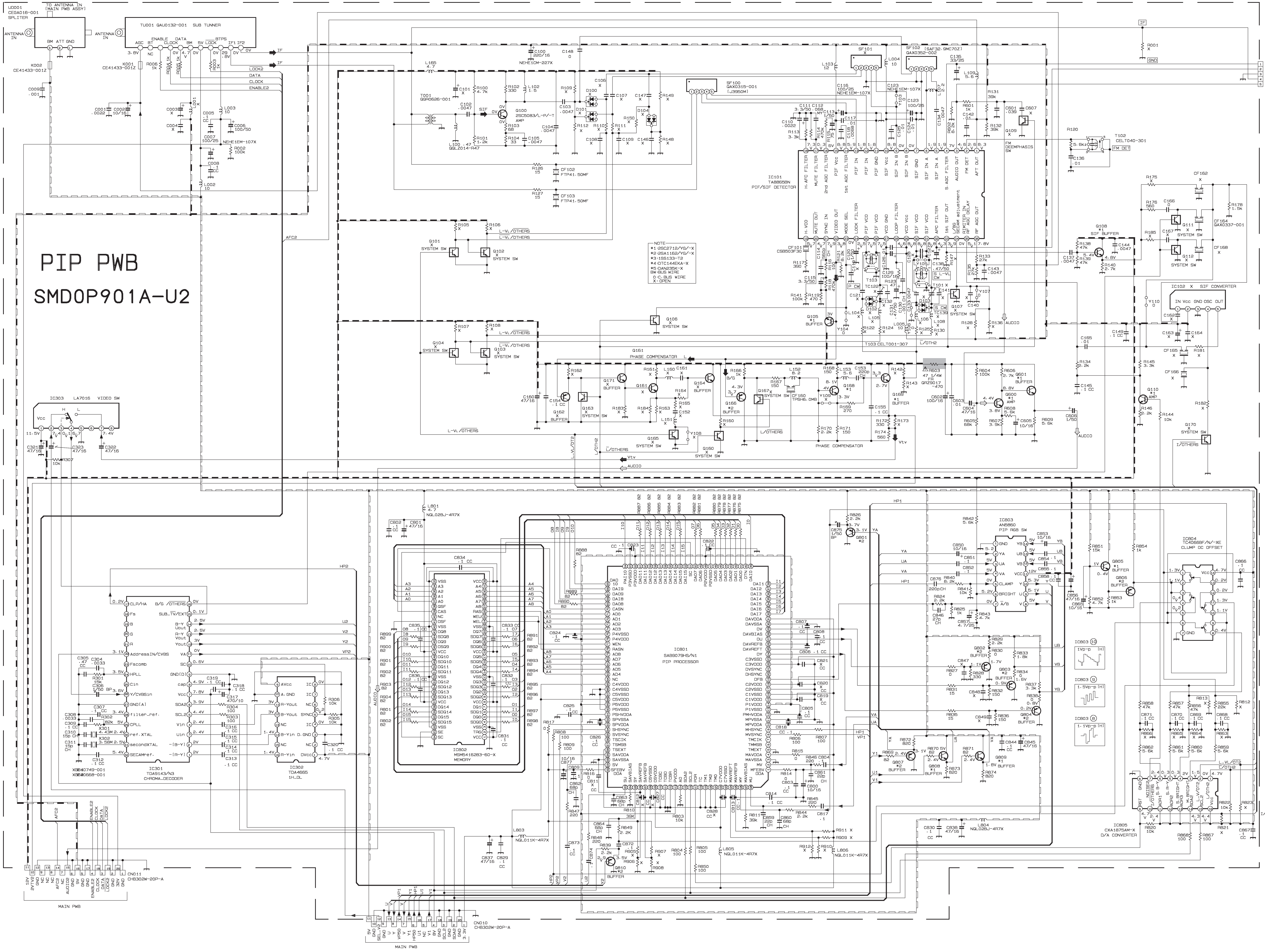
IF PWB CIRCUIT DIAGRAM [AV-32WFP1EK(A)]


IF PWB SMD0F903A-U2
NOTE
*1: 2SC2712/YG/-X
*2: 2SA1162/YG/-X
*3: DTC144EKA-X
*4: DAN235K-X
X : OPEN(NON MOUNT)
CN003
QGB3501K1-20
MAIN PWB
GND
L-VL/OT1
12V
IF
IF
IF
IF
GND
L AUDIO
APC FILTER
AFC1
SD1
S-AGC FILTER
9V
SIF
L/OTH1
NOISE1
RF AGC
Vtv 1
L-LEVEL1
L AUDIO
SIF
VTV
9V
12V
C047 220/16
NQL011K-1R5X
C045 0
C024 X
C025 X
R020 4.7k
R022 330
L021 1.5
R025 X
D020 X
D021 X
T020 QQR0626-001
C020 .0047
SIF
Q012 AMP 2SC5083/L-P/-T
11.5V
2.1V
1.4V
R023 68
R024 33
C021 .0047
C022 .0047
C023 .0047
R026 X
R027 X
R028 X
C026 X
C027 X
L020 .47 QQLZ014-R47
R021 1.2k
R030 15
R031 15
CF010 QAX0620-001 (MKT41.5MA110P)
CF011 QAX0620-001 (MKT41.5MA110P)
L040 12
C145 .0022
C144 3.3/50
C143 .068 MY
C142 1/50
R145 3.3k
R144 470k
R143 75
SF010 QAX0315-001 (J3950M)
C041 100/16
C042 .01
C040 .0068
SF011 X
SF012 QAX0618-001 (SAF32.9MC200Z)
L042 33
C043 100/16
C044 .01
C048 .01
Y003 0
L030 2.2
C030 .0047
C071 33/50
L030 NQL011K-2R2X
L070 5.6
R602 X
R601 X
C601 X
R070 39k
C070 .01
C069 .01
R071 39K
IC010 TA8865N
PIF/SIF DETECTOR
H.AFC FILTER
MUTE FILTER
2nd AGC FILTER
PIF Vcc
1st AGC FILTER
PIF IN
PIF IN
PIF GND
SIF Vcc
SIF IN B
SIF IN B
SIF GND
SIF IN A
SIF IN A
S.AGC FILTER
AUDIO OUT
FM DET
AFT OUT
H.VCO
MUTE OUT
SYNC IN
VIDEO OUT
MODE SEL
LOCK FILTER
PIF VCO
PIF VCO
VCO GND
LOOP FILTER
VCO Vcc
SIF VCO
SIF VCO
APC FILTER
1st SIF OUT
L/BG SECAM adjustment
RIMITER IN RF AGC DELAY
RF AGC OUT
R120 X
R121 X
L-VL/OTHERS
Q120 X SYSTEM SW
Q121 X SYSTEM SW
Y002 0
CF140 CSB503F30
R142 390
C141 560p CH
R141 100
R101 8.2k
C046 0
C050 1/50
T050 P.CW CELT001-307
C054 .01
C055 100/16
R065 47
C056 .47/50
L054 33
C057 .001
C061 X
C060 0
C062 .47/50
R146 100k
C140 3.3/50
R140 470k
R102 470
Q101 *1 BUFFER
2.3V
12V
C051 X
TC052 X
C053 X
C052 P.L-VL CW
D050 X
L050 X
L051 X
R050 X
R051 X
C058 .0047
T051 X
S.L-VL CW
S.CW
TC059 X
C067 X
D051 X
SYSTEM SW
Y004 0
L052 X
L053 X
R052 X
R053 X
Q126 X
C063 0
R083 X
C080 .0047
1st SIF
R057 4.7k
R058 27k
R059 27k
C064 .0047
Q080 *1 SIF BUFFER
R080 47k
C081 .0047
R081 47k
R082 2.7k
C065 1/50
R122 X
R123 X
Q125 X SYSTEM SW
Q122 X SYSTEM SW
Q123 X SYSTEM SW
Q104 PHASE COMPENSATOR
Q109 PHASE COMPENSATOR
L/OTHERS
R063 8.2k
R103 X
Q111 X
R104 X
L101 X
C102 X
Q102 X BUFFER
Q103 X SYSTEM SW
Q104 X
BUFFER
R117 X
R107 X
R125 X
R105 X
R106 X
L102 X
C103 X
Q106 X BUFFER
C105 .01
C101 47/16
NCB21HK-103X
R108 1k
Q108 X SYSTEM SW
L103 8.2
R109 120
CF100 TPSH6.0MB
Q107 *2 BUFFER
3.6V
3V
R111 150
C104 270p CH
L104 8.2
Q109 *1
3.4V
8.8V
2.7V
Y001 X
R113 270
Q110 *1 BUFFER
2V
R060 X
R061 X
R114 0
R115 X
R116 1k
R110 X
R112 150
Vtv
R609 X
C605 X
C606 X
C602 X
R603 X
R605 X
Q601 X AMP
Q602 X BUFFER
R607 X
R604 X
R606 X
C603 X
C604 X
R608 X
R062 X
R064 0
R124 X
Q124 X SYSTEM SW
VTV
SIF
L

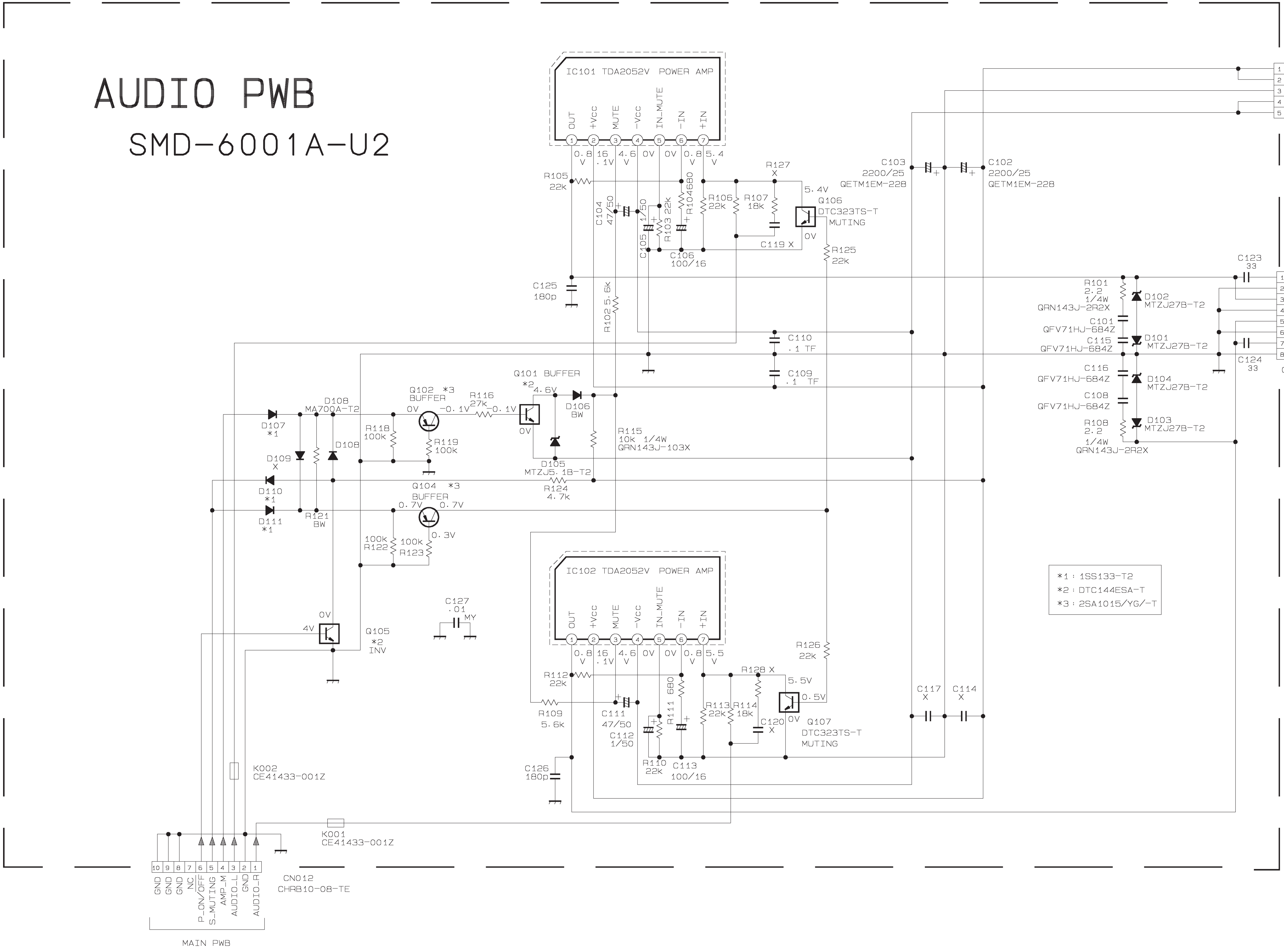
PIP PWB CIRCUIT DIAGRAM [AV-32WFP1EU(A) / AV-32WFP1EUI(A)]


PIP PWB
SMD0P001A-U2
UD001 CEGA016-001 SPLITER
TU001 CEEK481-A04 SUB TUNNER
IC101 TA8865BN PIF/SIF DETECTOR
IC102 LA7975 SIF CONVERTER
IC303 LA7016 VIDEO SW
IC301 TDA9143/N3 CHROMA DECODER
IC302 TDA4665 1H_DL
IC802 MSM5416283-60-X MEMORY
IC801 SAB9079HS/N1 PIP PROCESSOR
IC803 AN5860 PIP RGB SW
IC804 TC4066BF/N/-XE CLUMP DC OFFSET
IC805 CXA1875AM-X D/A CONVERTER
CN2IF
CN011 CH8302W-20P-A
CN010 CH8302W-20P-A
MAIN PWB
PHASE COMPENSATOR
SYSTEM SW
BUFFER

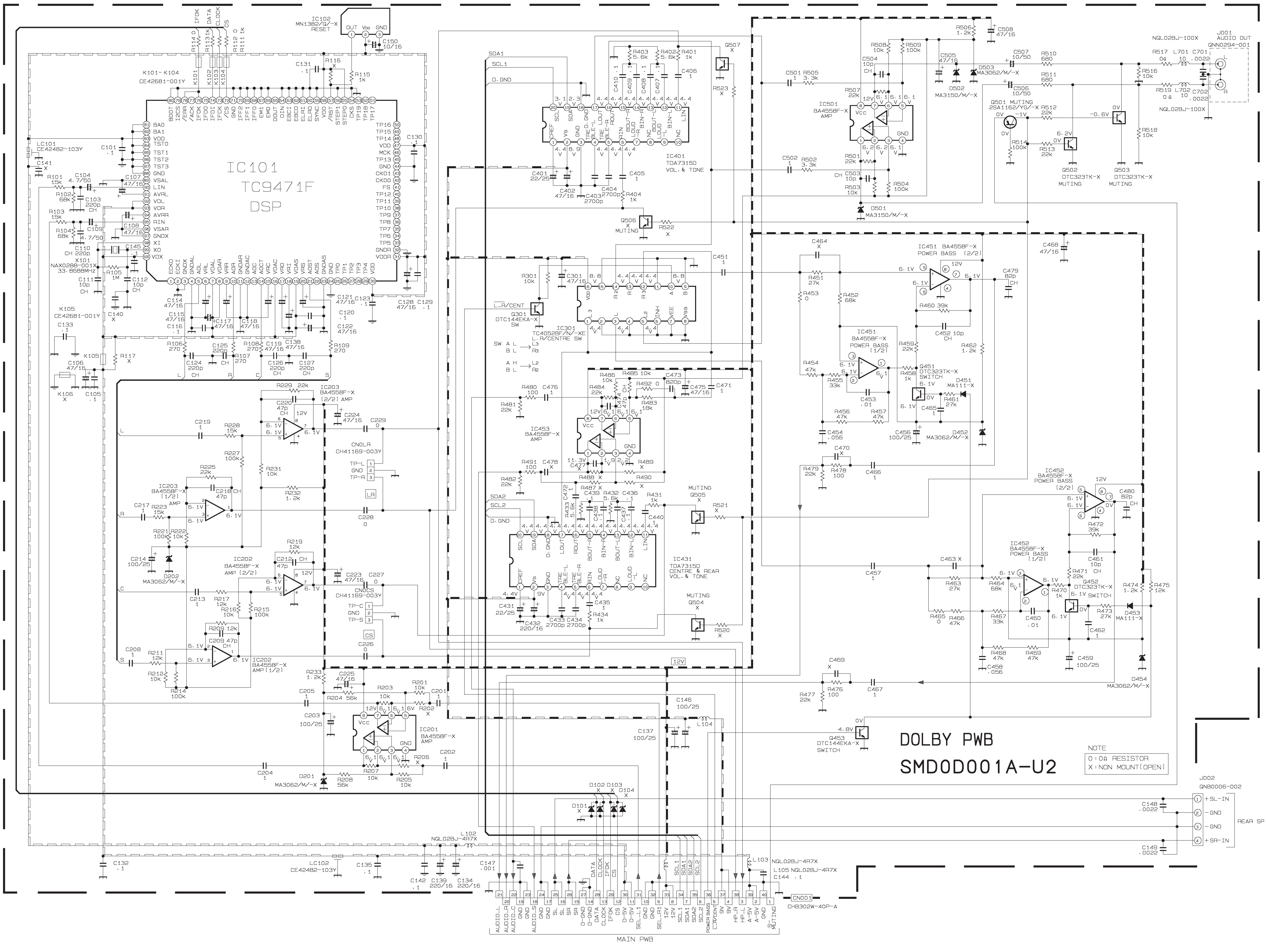
PIP PWB CIRCUIT DIAGRAM [AV-32WFP1EK(A)]


PIP PWB
SMD0P901A-U2
U0001 CEGA016-001 SPLITER
TU001 GAU0132-001 SUB TUNNER
TO ANTENNA IN (MAIN PWB ASSY)
ANTENNA IN
IC101 TA8858N PIF/SIF DETECTOR
SF100 GAX0315-001 (J3950M)
SF101
SF102 (SAF32.5MC70Z) GAX0352-002
T102 CELT040-301
T103 CELT001-307
FM DET
CN2IF
S AGC FILTER
AFC FILTER
GND
IF
AUDIO OUT
IC102 X SIF CONVERTER
NOTE
*1:2SC2712/YG/-X
*2:2SA1162/YG/-X
*3:1SS133-T2
*4:DTC144EKA-X
*5:DAN235K-X
BW:BUS WIRE
O:C.BUS WIRE
X:OPEN
PHASE COMPENSATOR
IC303 LA7016 VIDEO SW
IC301 TDA9143/N3 CHROMA DECODER
IC302 TDA4665 1H DL
IC802 MSM5416283-60-X MEMORY
IC801 SAB9079HS/N1 PIP PROCESSOR
IC803 AN5860 PIP RGB SW
IC804 TC4066BF/N/-XE CLUMP DC OFFSET
IC805 CXA1875AM-X D/A CONVERTER
CN011 CHB302W-20P-A
MAIN PWB
CN010 CHB302W-20P-A
MAIN PWB

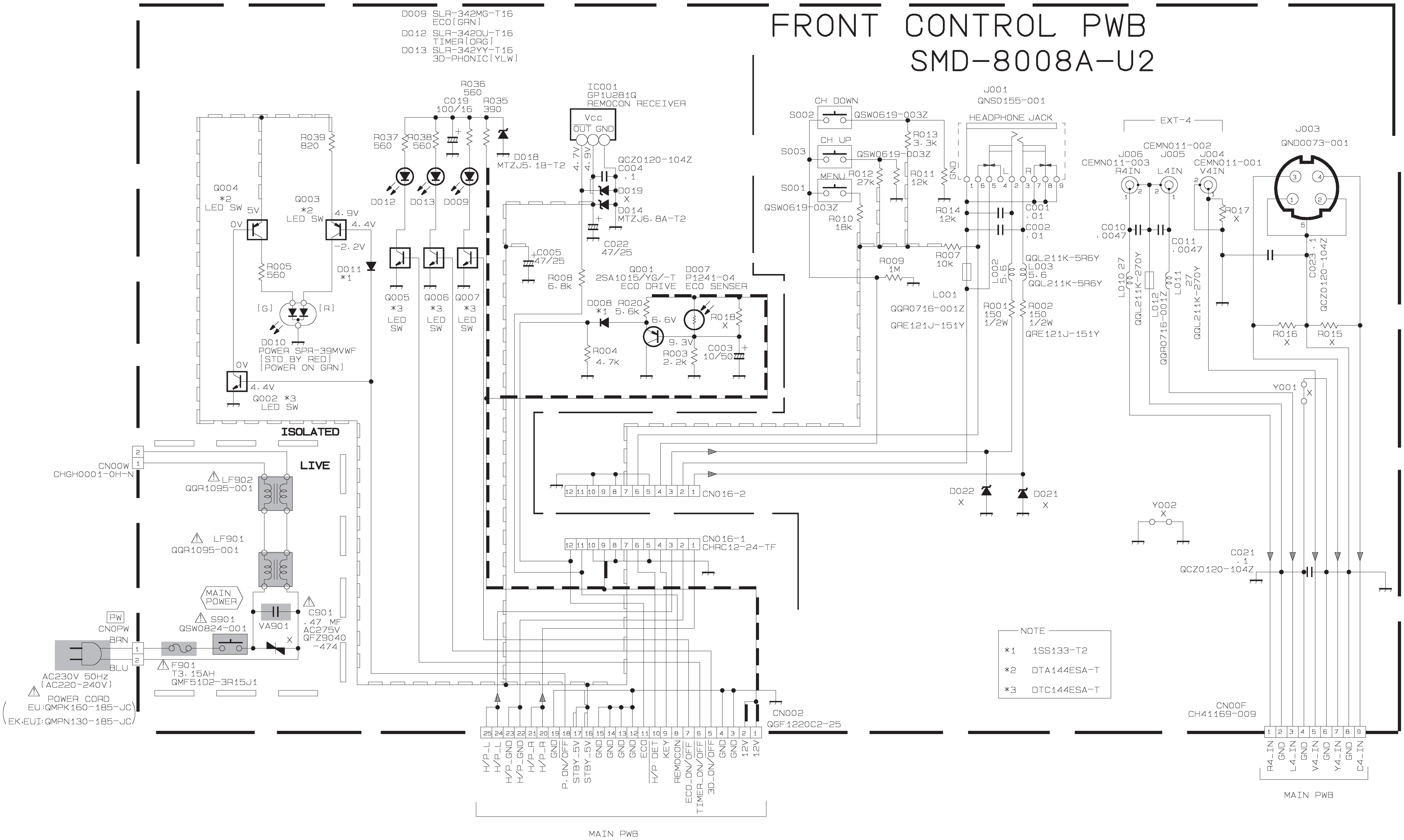
AUDIO PWB CIRCUIT DIAGRAM


AUDIO PWB
SMD-6001A-U2
IC101 TDA2052V POWER AMP
OUT
+Vcc
MUTE
-Vcc
IN_MUTE
-IN
+IN
0.8 V
16.1V
4.6 V
0V
0V
0.8 V
5.4 V
R105 22k
C104 47/50
C105 1/50
R103 22k
R104 680
C106 100/16
R106 22k
R107 18k
R127 X
C119 X
5.4V
Q106 DTC323TS-T MUTING
0V
R125 22k
C125 180p
R102 5.6k
C103 2200/25 QETM1EM-228
C102 2200/25 QETM1EM-228
A_M+VCC
A_M+VCC
A_GND
A_M-VCC
A_M-VCC
POWER PWB
CN015 WJS0010-002A
C123 33
TWEETER
GND
SP-L
GND
SP-R
GND
TWEETER
GND
SPEAKER
C124 33
CN005 CH41169-008Y
R101 2.2 1/4W QRN143J-2R2X
D102 MTZJ27B-T2
C101 QFV71HJ-684Z
C115 QFV71HJ-684Z
D101 MTZJ27B-T2
C116 QFV71HJ-684Z
D104 MTZJ27B-T2
C108 QFV71HJ-684Z
R108 2.2 1/4W QRN143J-2R2X
D103 MTZJ27B-T2
C110 .1 TF
C109 .1 TF
Q101 BUFFER *2
4.6V
D106 BW
0V
R115 10k 1/4W QRN143J-103X
D105 MTZJ5.1B-T2
R124 4.7k
Q102 *3 BUFFER
0V
-0.1V
R116 27k
-0.1V
R118 100k
R119 100k
D108 MA700A-T2
D107 *1
D108
D109 X
D110 *1
D111 *1
R121 BW
Q104 *3 BUFFER
0.7V
0.7V
0.3V
R122 100k
R123 100k
C127 .01 MY
0V
4V
Q105 *2 INV
IC102 TDA2052V POWER AMP
OUT
+Vcc
MUTE
-Vcc
IN_MUTE
-IN
+IN
0.8 V
16.1V
4.6 V
0V
0V
0.8 V
5.5 V
R112 22k
R109 5.6k
C111 47/50
C112 1/50
R111 680
R110 22k
C113 100/16
R113 22k
R114 18k
R128 X
C120 X
5.5V
0.5V
0V
Q107 DTC323TS-T MUTING
R126 22k
C126 180p
C117 X
C114 X
*1 : 1SS133-T2
*2 : DTC144ESA-T
*3 : 2SA1015/YG/-T
K002 CE41433-001Z
K001 CE41433-001Z
GND
GND
GND
NC
P_ON/OFF
S_MUTING
AMP_M
AUDIO_L
GND
AUDIO_R
CN012 CHR810-08-TE
MAIN PWB

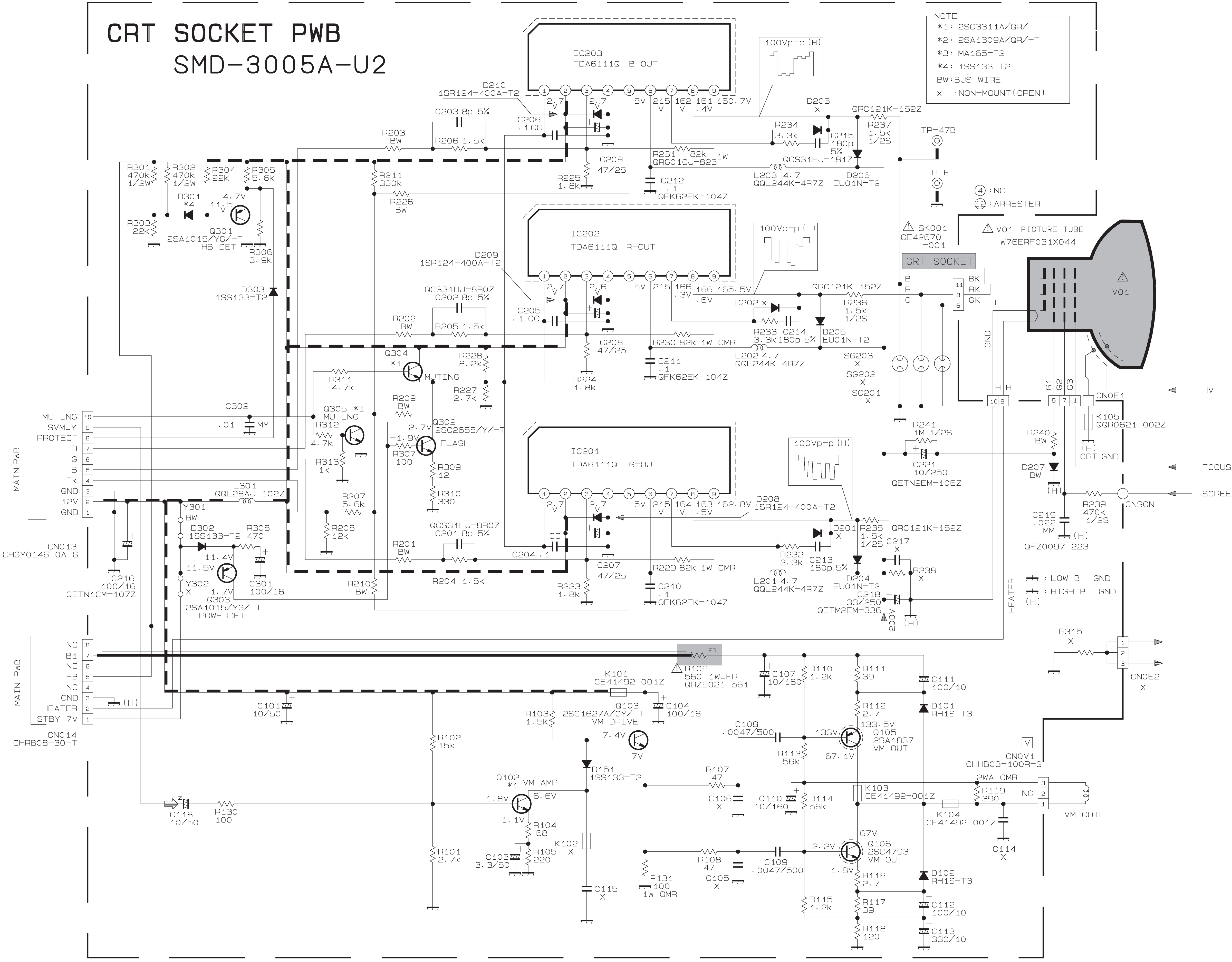
DOLBY PWB CIRCUIT DIAGRAM


IC101
TC9471F
DSP
IC102
MN1382/Q/-X
RESET
K101-K104
CE42681-001Y
K105
CE42681-001Y
X101
NAX0288-001X
33.8688MHz
LC101
CE42482-103Y
LC102
CE42482-103Y
IC201
BA4558F-X
AMP
IC202
BA4558F-X
AMP (2/2)
IC202
BA4558F-X
AMP (1/2)
IC203
BA4558F-X
(2/2) AMP
IC203
BA4558F-X
(1/2)
AMP
CN0LR
CH41169-003Y
CN0CS
CH41169-003Y
TP-L
GND
TP-R
TP-C
GND
TP-S
LR
CS
D201
MA3062/M/-X
D202
MA3062/M/-X
IC401
TDA7315D
VOL. & TONE
IC301
TC4052BF/N/-XE
L.R/CENTRE SW
Q301
DTC144EKA-X
SW
L.R/CENT
IC453
BA4558F-X
AMP
IC431
TDA7315D
CENTRE & REAR
VOL. & TONE
Q506
MUTING
Q505
MUTING
Q504
MUTING
Q507
IC501
BA4558F-X
AMP
D501
MA3150/M/-X
D502
MA3150/M/-X
D503
MA3062/M/-X
Q501 MUTING
2SA1162/YG/-X
Q502
DTC323TK-X
MUTING
Q503
DTC323TK-X
MUTING
J001
AUDIO OUT
QNN0294-001
NQL02BJ-100X
IC451 BA4558F-X
POWER BASS (2/2)
IC451
BA4558F-X
POWER BASS
(1/2)
Q451
DTC323TK-X
SWITCH
D451
MA111-X
D452
MA3062/M/-X
IC452
BA4558F-X
POWER BASS
(2/2)
IC452
BA4558F-X
POWER BASS
(1/2)
Q452
DTC323TK-X
SWITCH
D453
MA111-X
D454
MA3062/M/-X
Q453
DTC144EKA-X
SWITCH
L102
NQL02BJ-4R7X
L103 NQL02BJ-4R7X
L105 NQL02BJ-4R7X
L104
D101
D102 D103
D104
DOLBY PWB
SMD0D001A-U2
NOTE
0 : 0Ω RESISTOR
X : NON MOUNT(OPEN)
J002
QN80006-002
+SL-IN
-GND
-GND
+SR-IN
REAR SP OUT
CN001
CHB302W-40P-A
MAIN PWB
AUDIO-L
AUDIO-R
AUDIO-C
AUDIO-S
GND
SL
SR
D-GND
DATA
CLOCK
IFCK
CS
D-5V
SEL-L1
SEL-R1
12V
SCL1
SDA1
SDA2
SCL2
POWER BASS
L.R/CENT
9V
HP-R
HP-L
A-5V
MUTING
SDA1
SCL1
D.GND
SDA2
SCL2
12V

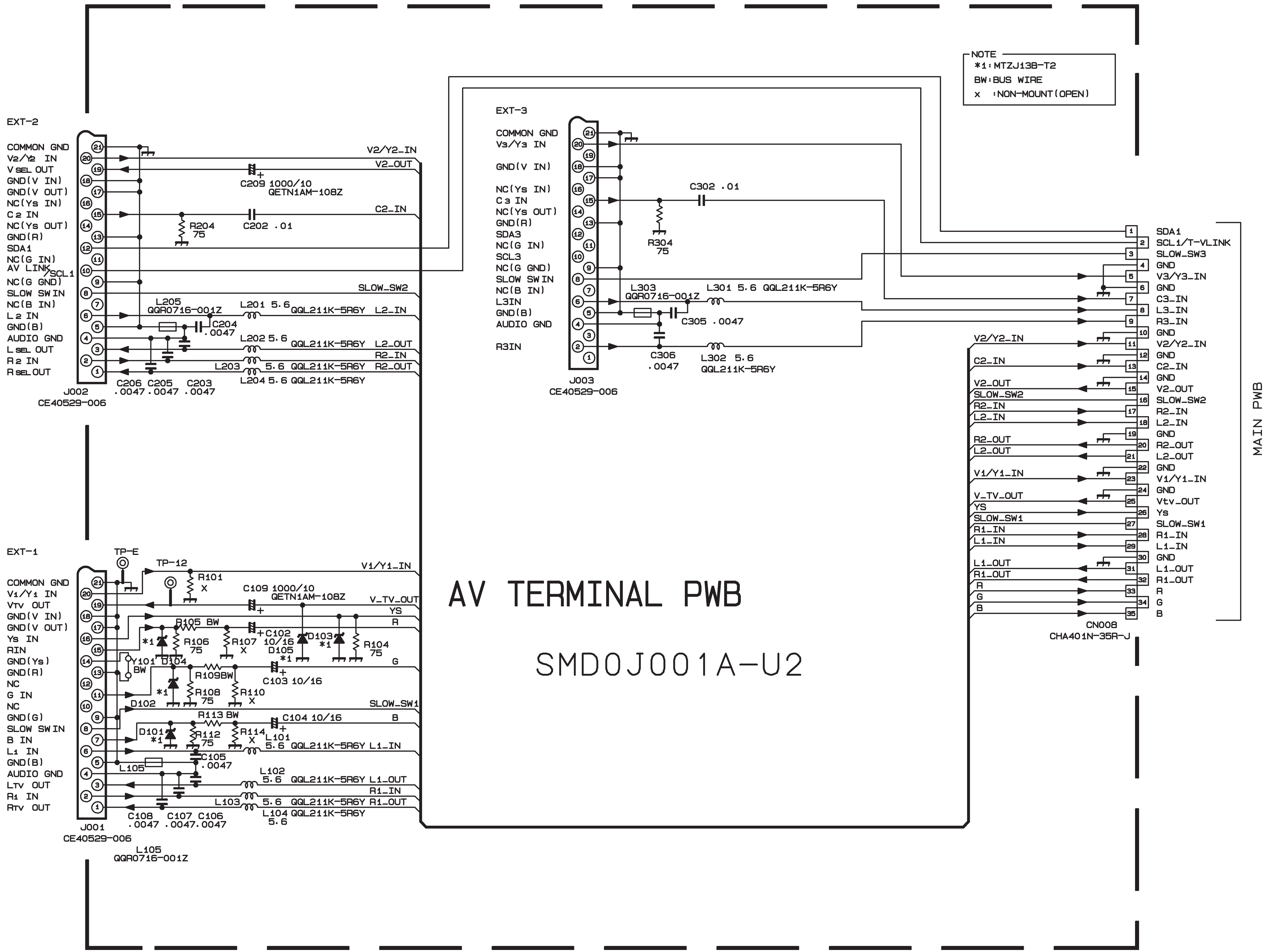
FRONT CONTROL PWB CIRCUIT DIAGRAM


FRONT CONTROL PWB
SMD-8008A-U2
D009 SLR-342MG-T16 ECO[GRN]
D012 SLR-342DU-T16 TIMER[ORG]
D013 SLR-342YY-T16 3D-PHONIC[YLW]
R036 560
C019 100/16
R035 390
IC001 GP1U281Q REMOCON RECEIVER
Vcc
OUT GND
QCZ0120-104Z
C004 .1
D019 X
D014 MTZJ6.8A-T2
C022 47/25
R039 820
R037 560
R038 560
D018 MTZJ5.1B-T2
4.7V
4.9V
Q004 *2 LED SW
5V
0V
Q003 *2 LED SW
4.9V
4.4V
-2.2V
D012
D013
D009
R005 560
D011 *1
C005 47/25
R008 6.8k
Q001 2SA1015/YG/-T ECO DRIVE
D007 P1241-04 ECO SENSER
D008 *1
R020 5.6k
6.6V
R018 X
9.3V
R004 4.7k
R003 2.2k
C003 10/50
[G]
[R]
D010 POWER SPR-39MVWF [STD BY RED] [POWER ON GRN]
Q005 *3 LED SW
Q006 *3 LED SW
Q007 *3 LED SW
0V
4.4V
Q002 *3 LED SW
ISOLATED
LIVE
CN00W CHGH0001-OH-N
LF902 QQR1095-001
LF901 QQR1095-001
MAIN POWER
S901 QSW0824-001
C901 .47 MF AC275V QFZ9040-474
VA901
X
PW
CN0PW
BRN
BLU
F901 T3.15AH QMF51D2-3R15J1
AC230V 50Hz (AC220~240V)
POWER CORD
EU:QMPK160-185-JC
EK·EUI:QMPN130-185-JC
CH DOWN
S002
QSW0619-003Z
CH UP
S003
QSW0619-003Z
MENU
S001
QSW0619-003Z
R013 3.3k
R012 27k
R011 12k
R010 18k
GND
J001 QNS0155-001
HEADPHONE JACK
L
R
R014 12k
C001 .01
C002 .01
R007 10k
R009 1M
L002 5.6
L003 5.6
QQL211K-5R6Y
QQL211K-5R6Y
L001
QQR0716-001Z
R001 150 1/2W
R002 150 1/2W
QRE121J-151Y
QRE121J-151Y
EXT-4
CEMN011-003
J006 R4IN
CEMN011-002
J005 L4IN
J004 CEMN011-001 V4IN
J003 QND0073-001
R017 X
C010 .0047
C011 .0047
C023 .1
QCZ0120-104Z
L010 27 QQL211K-270Y
L012 QQR0716-001Z
L011 27 QQL211K-270Y
R016 X
R015 X
Y001 X
Y002 X
D022 X
D021 X
CN016-2
CN016-1 CHRC12-24-TF
C021 .1 QCZ0120-104Z
NOTE
*1 1SS133-T2
*2 DTA144ESA-T
*3 DTC144ESA-T
CN002 QGF1220C2-25
25 H/P_L
24 H/P_L
23 H/P_GND
22 H/P_GND
21 H/P_R
20 H/P_R
19 GND
18 P_ON/OFF
17 STBY_5V
16 STBY_5V
15 GND
14 GND
13 GND
12 GND
11 ECO
10 H/P DET
9 KEY
8 REMOCON
7 ECO_ON/OFF
6 TIMER_ON/OFF
5 3D_ON/OFF
4 GND
3 GND
2 12V
1 12V
MAIN PWB
CN00F CH41169-009
1 R4_IN
2 GND
3 L4_IN
4 GND
5 V4_IN
6 GND
7 Y4_IN
8 GND
9 C4_IN
MAIN PWB

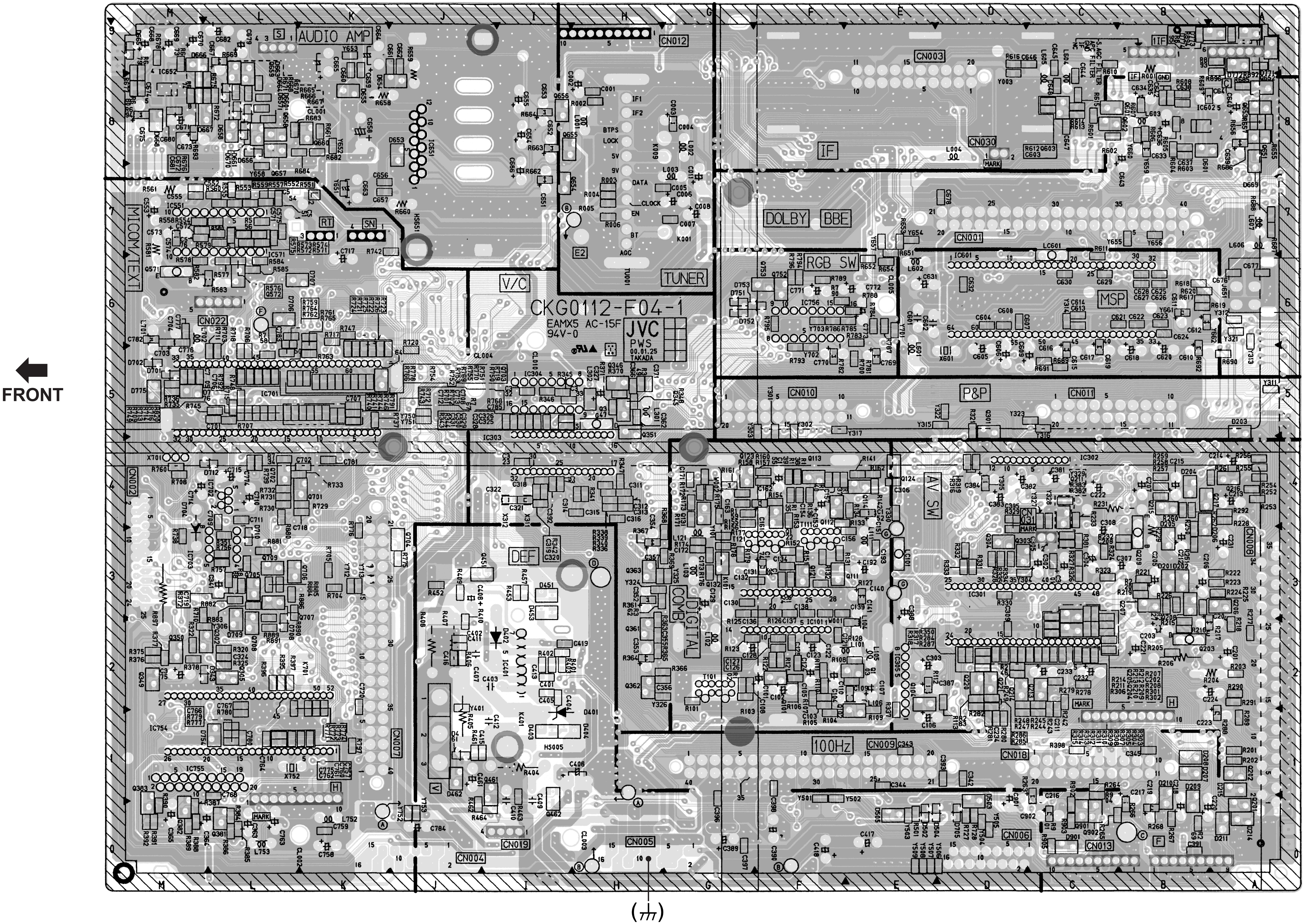
CRT SOCKET PWB CIRCUIT DIAGRAM


CRT SOCKET PWB
SMD-3005A-U2
NOTE
*1: 2SC3311A/QR/-T
*2: 2SA1309A/QR/-T
*3: MA165-T2
*4: 1SS133-T2
BW: BUS WIRE
x : NON-MOUNT (OPEN)
④ : NC
⑫ : ARRESTER
IC203 TDA6111Q B-OUT
IC202 TDA6111Q R-OUT
IC201 TDA6111Q G-OUT
100Vp-p (H)
D210 1SR124-400A-T2
D209 1SR124-400A-T2
D208 1SR124-400A-T2
C203 8p 5%
C206 .1 CC
C205 .1 CC
C202 8p 5%
QCS31HJ-8R0Z
C201 8p 5%
C204 .1
R203 BW
R206 1.5k
R202 BW
R205 1.5k
R201 BW
R204 1.5k
R225 1.8k
R224 1.8k
R223 1.8k
C209 47/25
C208 47/25
C207 47/25
R231 82k 1W
QRG01GJ-823
R230 82k 1W OMR
R229 82k 1W OMR
C212 .1 QFK62EK-104Z
C211 .1 QFK62EK-104Z
C210 .1 QFK62EK-104Z
5V
215 V
162 V
161 .4V
160.7V
166 .3V
166 .6V
165.5V
164 V
163 .5V
162.8V
2.7 V
2.6 V
D203 x
D202 x
D201 x
R234 3.3k
R233 3.3k
R232 3.3k
C215 180p 5%
C214 180p 5%
C213 180p 5%
QRC121K-152Z
R237 1.5k 1/2S
R236 1.5k 1/2S
R235 1.5k 1/2S
QCS31HJ-181Z
L203 4.7 QQL244K-4R7Z
L202 4.7 QQL244K-4R7Z
L201 4.7 QQL244K-4R7Z
D206 EU01N-T2
D205 EU01N-T2
D204 EU01N-T2
TP-47B
TP-E
SK001 CE42670-001
CRT SOCKET
V01 PICTURE TUBE W76ERF031X044
V01
B R G
BK RK GK
11 8 6
GND
SG203 x
SG202 x
SG201 x
H H
10 9
G1 G2 G3
5 7 1
CN0E1
HV
K105 QQR0621-002Z
(H) CRT GND
R241 1M 1/2S
C221 10/250 QETN2EM-106Z
R240 BW
D207 BW
(H)
FOCUS
SCREEN
R239 470k 1/2S
CNSCN
C219 .022 MM
(H)
QFZ0097-223
C217 x
R238 x
C218 33/250 QETM2EM-336
200V
(H)
HEATER (H)
: LOW B GND
: HIGH B GND
R301 470k 1/2W
R302 470k 1/2W
R304 22k
R305 5.6k
D301 *4
4.7V
11.5 V
Q301 2SA1015/YG/-T HB DET
R303 22k
R306 3.9k
D303 1SS133-T2
R211 330k
R226 BW
Q304 *1
MUTING
R228 8.2k
R227 2.7k
R311 4.7k
R209 BW
Q305 *1 MUTING
R312 4.7k
2.7V
Q302 2SC2655/Y/-T
-1.9V
R307 100
FLASH
R313 1k
R309 12
R310 330
R207 5.6k
R208 12k
R210 BW
C302 .01 MY
MUTING 10
SVM_Y 9
PROTECT 8
R 7
G 6
B 5
IK 4
GND 3
12V 2
GND 1
MAIN PWB
L301 QQL26AJ-102Z
CN013 CHGY0146-0A-G
C216 100/16 QETN1CM-107Z
Y301 BW
D302 1SS133-T2
R308 470
11.4V
11.5V
Y302 x
-1.7V
C301 100/16
Q303 2SA1015/YG/-T POWERDET
NC 8
B1 7
NC 6
HB 5
NC 4
GND 3
HEATER 2
STBY_7V 1
CN014 CHRB08-30-T
(H)
FR
R109 560 1W_FR QRZ9021-561
K101 CE41492-001Z
C101 10/50
C107 10/160
R110 1.2k
R111 39
C111 100/10
R315 x
1 2 3
CN0E2 x
R103 1.5k
Q103 2SC1627A/OY/-T VM DRIVE
C104 100/16
7.4V
7V
R102 15k
R112 2.7
D101 RH1S-T3
C108 .0047/500
133V
133.5V
Q105 2SA1837 VM OUT
R113 56k
67.1V
D151 1SS133-T2
Q102 *1 VM AMP
6.6V
1.8V
1.1V
R107 47
C106 x
C110 10/160
R114 56k
K103 CE41492-001Z
CN0V1 CHHB03-100R-G
2WA OMR
R119 390
NC
VM COIL
K104 CE41492-001Z
C114 x
C118 10/50
R130 100
R104 68
K102 x
R101 2.7k
C103 3.3/50
R105 220
C115 x
R131 100 1W OMR
R108 47
C105 x
C109 .0047/500
2.2V
67V
Q106 2SC4793 VM OUT
1.8V
R116 2.7
D102 RH1S-T3
R115 1.2k
R117 39
C112 100/10
R118 120
C113 330/10

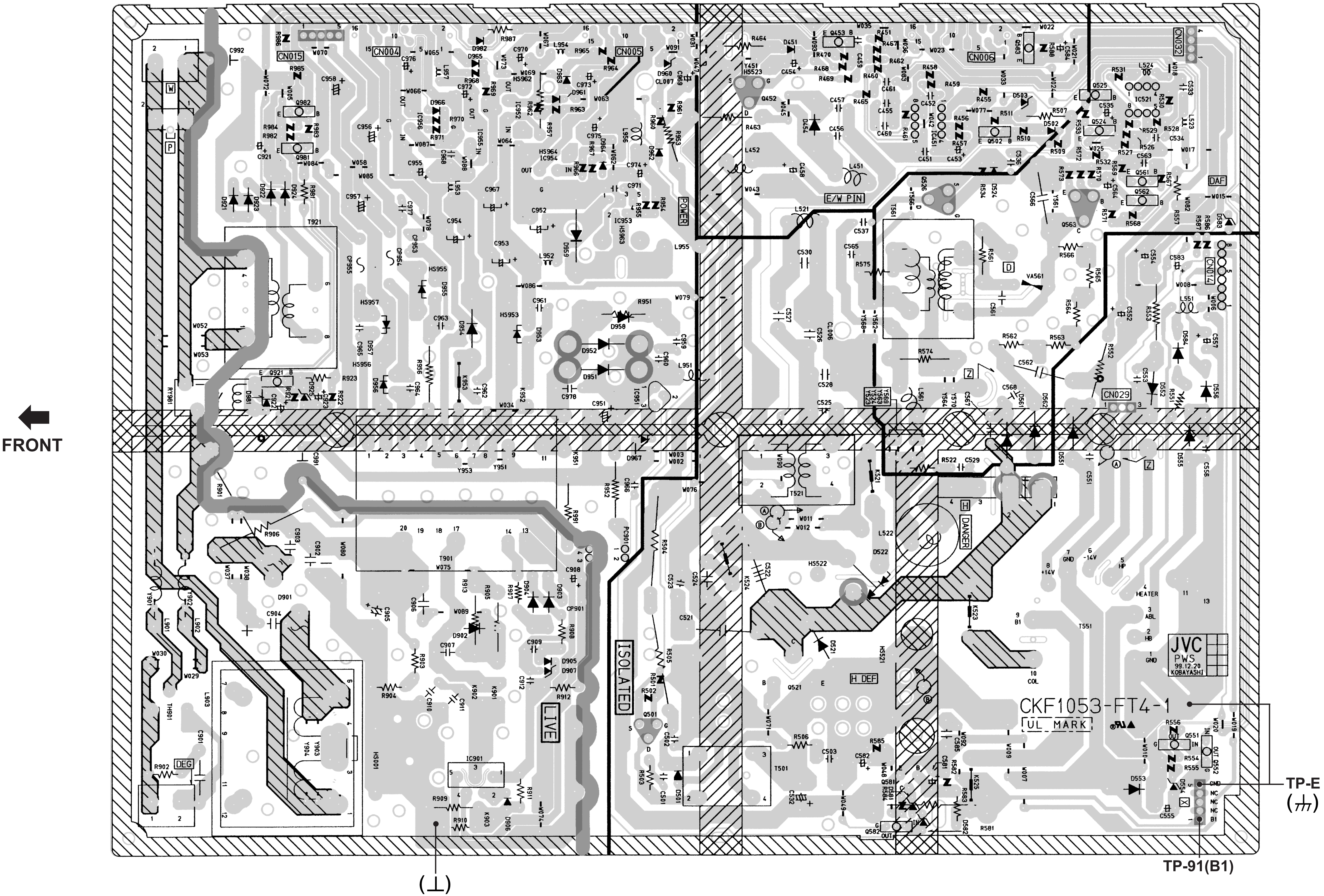
AV TERMINAL PWB CIRCUIT DIAGRAM


NOTE
*1: MTZJ13B-T2
BW: BUS WIRE
x : NON-MOUNT (OPEN)
EXT-2
COMMON GND
V2/Y2 IN
V SEL OUT
GND(V IN)
GND(V OUT)
NC(Ys IN)
C2 IN
NC(Ys OUT)
GND(R)
SDA1
NC(G IN)
AV LINK/SCL1
NC(G GND)
SLOW SW IN
NC(B IN)
L2 IN
GND(B)
AUDIO GND
L SEL OUT
R2 IN
R SEL OUT
J002
CE40529-006
V2/Y2_IN
V2_OUT
C209 1000/10
QETN1AM-108Z
C2_IN
R204
75
C202 .01
SLOW_SW2
L205
QQR0716-001Z
L201 5.6
QQL211K-5R6Y
L2_IN
C204
.0047
L202 5.6
QQL211K-5R6Y
L2_OUT
R2_IN
L203
5.6 QQL211K-5R6Y
R2_OUT
L204 5.6 QQL211K-5R6Y
C206 .0047
C205 .0047
C203 .0047
EXT-3
COMMON GND
V3/Y3 IN
GND(V IN)
NC(Ys IN)
C3 IN
NC(Ys OUT)
GND(R)
SDA3
NC(G IN)
SCL3
NC(G GND)
SLOW SW IN
NC(B IN)
L3IN
GND(B)
AUDIO GND
R3IN
J003
CE40529-006
C302 .01
R304
75
L303
QQR0716-001Z
L301 5.6 QQL211K-5R6Y
C305 .0047
C306
.0047
L302 5.6
QQL211K-5R6Y
EXT-1
TP-E
TP-12
COMMON GND
V1/Y1 IN
VTV OUT
GND(V IN)
GND(V OUT)
Ys IN
RIN
GND(Ys)
GND(R)
NC
G IN
NC
GND(G)
SLOW SW IN
B IN
L1 IN
GND(B)
AUDIO GND
LTV OUT
R1 IN
RTV OUT
J001
CE40529-006
R101
X
C109 1000/10
QETN1AM-108Z
V1/Y1_IN
V_TV_OUT
YS
R
G
R105 BW
R106 75
R107 X
C102 10/16
D105 *1
D103 *1
R104 75
D104 *1
Y101 BW
R109BW
C103 10/16
R108 75
R110 X
D102
SLOW_SW1
R113 BW
C104 10/16
B
D101 *1
R112 75
R114 X
L101 5.6 QQL211K-5R6Y L1_IN
C105 .0047
L105
L102 5.6 QQL211K-5R6Y L1_OUT
R1_IN
L103 5.6 QQL211K-5R6Y R1_OUT
L104 QQL211K-5R6Y 5.6
C108 .0047
C107 .0047
C106 .0047
L105
QQR0716-001Z
AV TERMINAL PWB
SMD0J001A-U2
CN008
CHA401N-35R-J
MAIN PWB
1 SDA1
2 SCL1/T-VLINK
3 SLOW_SW3
4 GND
5 V3/Y3_IN
6 GND
7 C3_IN
8 L3_IN
9 R3_IN
10 GND
11 V2/Y2_IN
12 GND
13 C2_IN
14 GND
15 V2_OUT
16 SLOW_SW2
17 R2_IN
18 L2_IN
19 GND
20 R2_OUT
21 L2_OUT
22 GND
23 V1/Y1_IN
24 GND
25 Vtv_OUT
26 Ys
27 SLOW_SW1
28 R1_IN
29 L1_IN
30 GND
31 L1_OUT
32 R1_OUT
33 R
34 G
35 B
V2/Y2_IN
C2_IN
V2_OUT
SLOW_SW2
R2_IN
L2_IN
R2_OUT
L2_OUT
V1/Y1_IN
V_TV_OUT
YS
SLOW_SW1
R1_IN
L1_IN
L1_OUT
R1_OUT
R
G
B

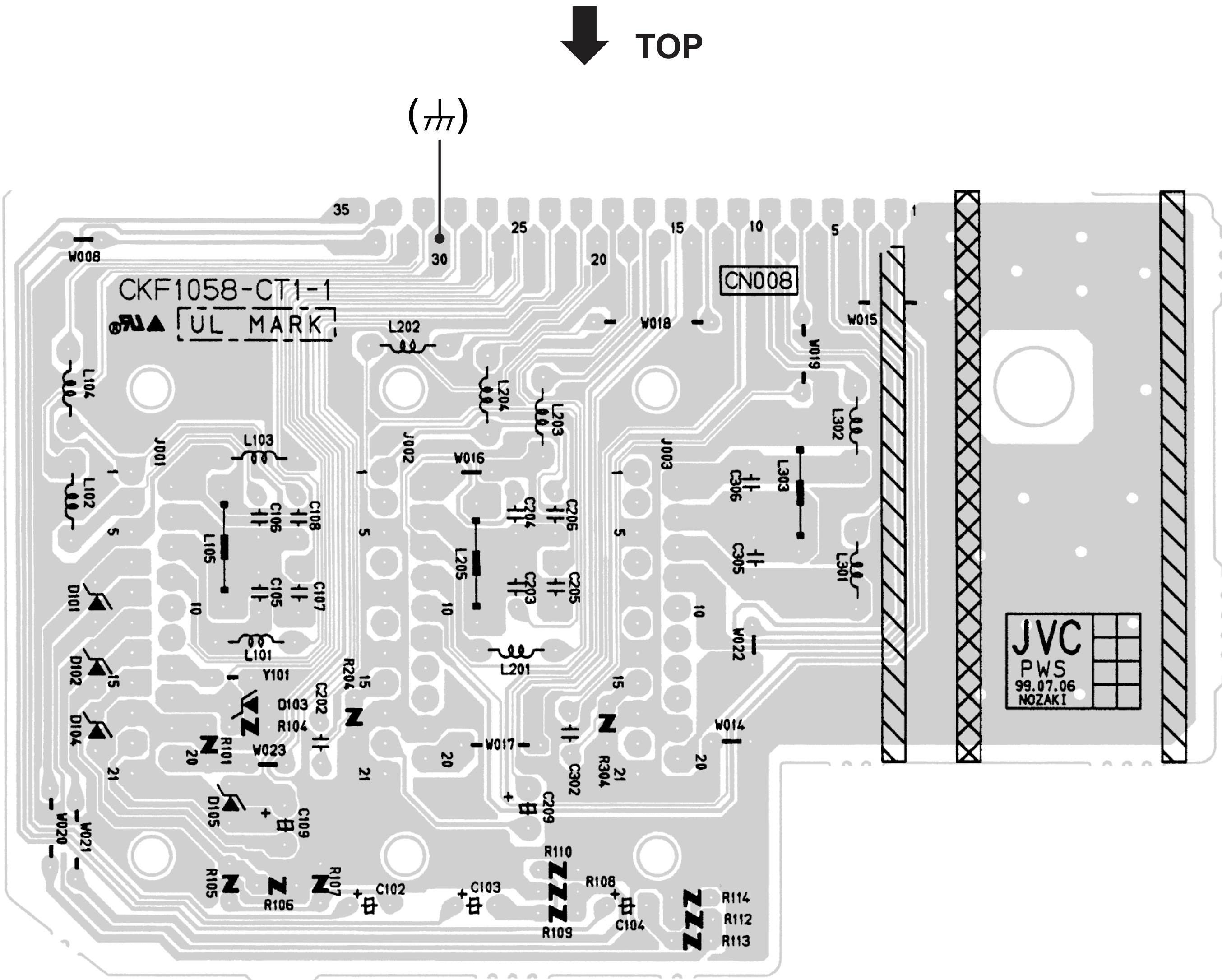
PATTERN DIAGRAMS *MAIN PWB PATTERN*


FRONT
AUDIO AMP
MICOM/TEXT
CN012
TUNER
E2
V/C
CKG0112-F04-1
EAMX5 AC-15F
94V-0
JVC
PWS
00.01.25
TAKADA
IF
CN003
CN030
CN001
DOLBY
BBE
RGB SW
MSP
P&P
CN010
CN011
CN022
CN002
AV SW
DEF
COMB
DIGITAL
100Hz
CN009
CN018
CN008
CN007
CN004
CN019
CN005
CN006
CN013
RT
SN
MARK
HS005

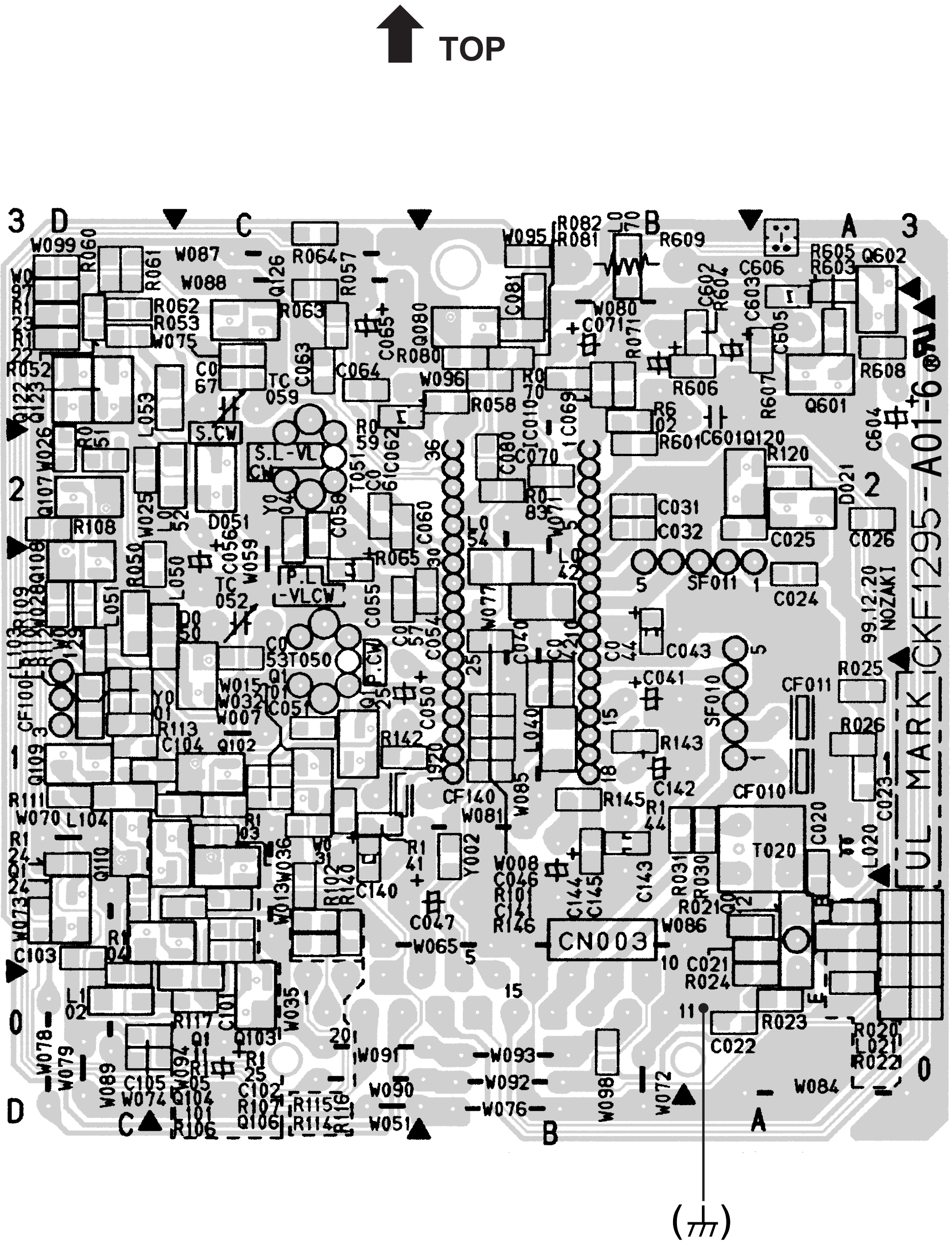
POWER / DEF PWB PATTERN


FRONT
CN015
CN004
CN005
CN006
CN032
CN014
CN029
POWER
E/W PIN
DAF
T921
T901
T521
T551
T501
IC901
ISOLATED
LIVE
DANGER
H DEF
DEG
JVC
PWS
99.12.20
KOBAYASHI
CKF1053-FT4-1
UL MARK
8 +14V
7 GND
6 -14V
5 HP
4 HEATER
3 ABL
2 HB
1 GND
9 B1
10 COL
11
13
GND
NC
NC
NC
B1
TP-E
(⏊)
TP-91(B1)
(⊥)

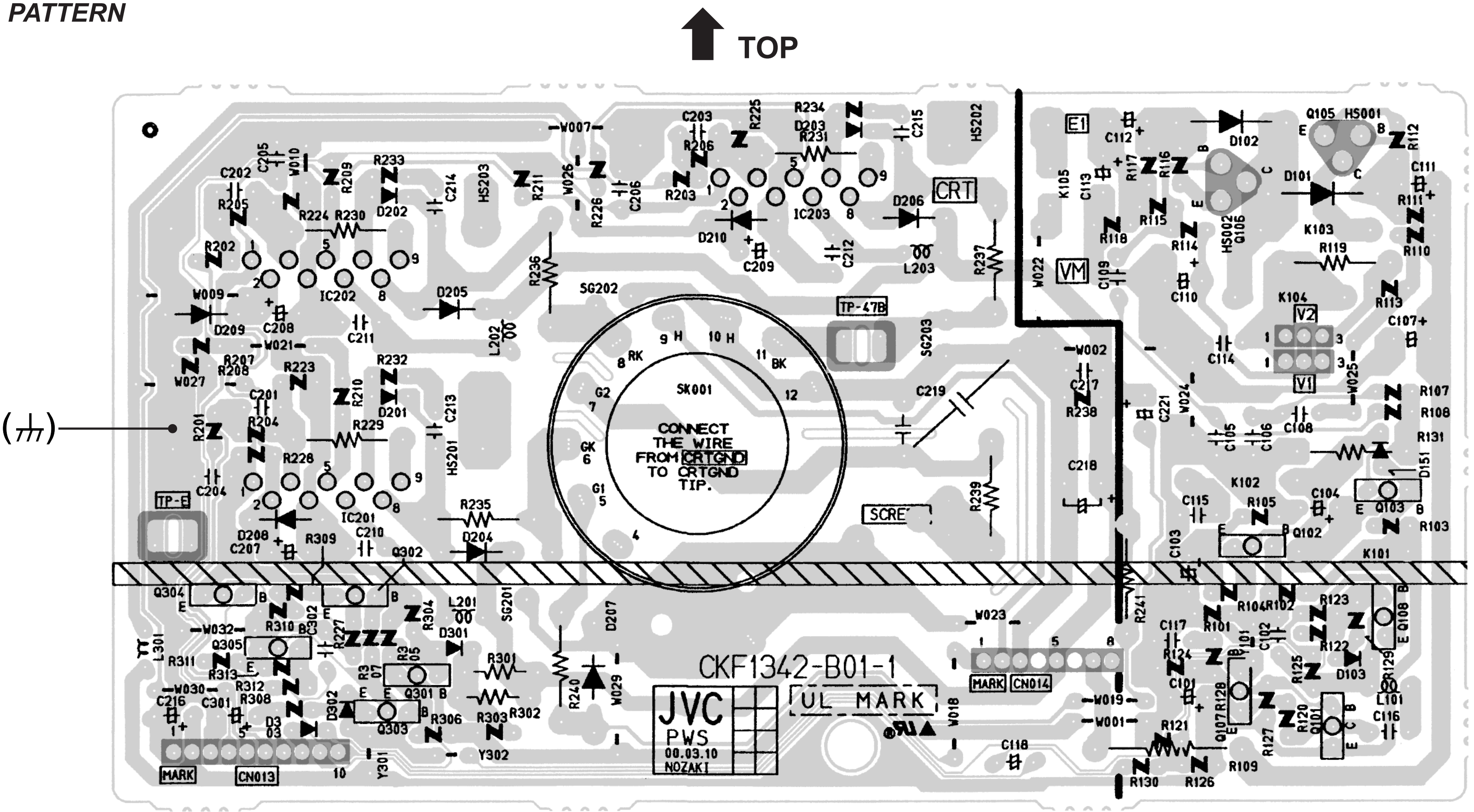
AV TERMINAL PWB PATTERN


TOP
CKF1058-CT1-1
UL MARK
CN008
J001
J002
J003
JVC
PWS
99.07.06
NOZAKI

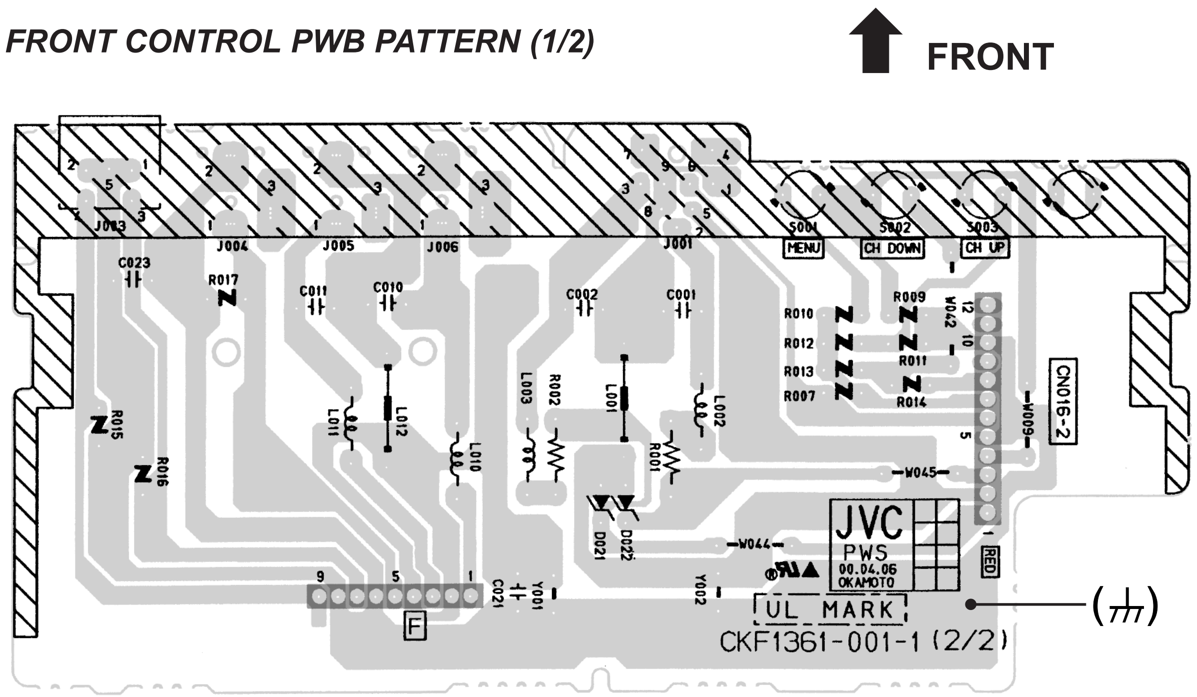
IF PWB PATTERN


TOP
CKF1295-A01-6
UL MARK
CN003
99.12.20
NOZAKI1
T020
SF011
SF010
CF010
CF011

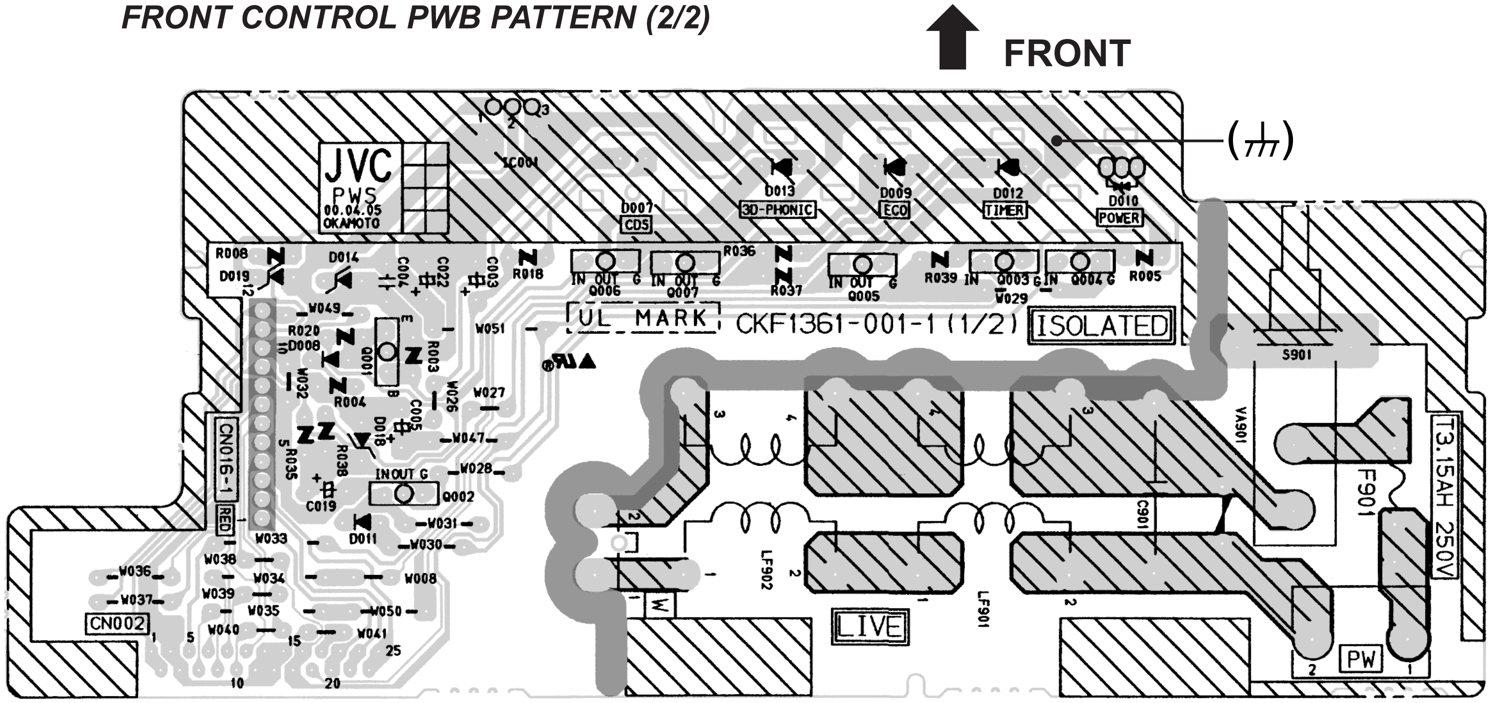
CRT SOCKET PWB PATTERN


TOP
(⏚)
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP.
SK001
CKF1342-B01-1
JVC
PWS
00.03.10
NOZAKI
UL MARK
CRT
VM
TP-47B
TP-E
SCREEN
CN013
CN014
MARK
IC201
IC202
IC203
Q101
Q102
Q103
Q105
Q106
Q107
Q108
Q301
Q302
Q303
Q304
Q305
HS001
HS002
HS201
HS202
HS203
SG201
SG202
SG203
E1
V1
V2

FRONT CONTROL PWB PATTERN (1/2)

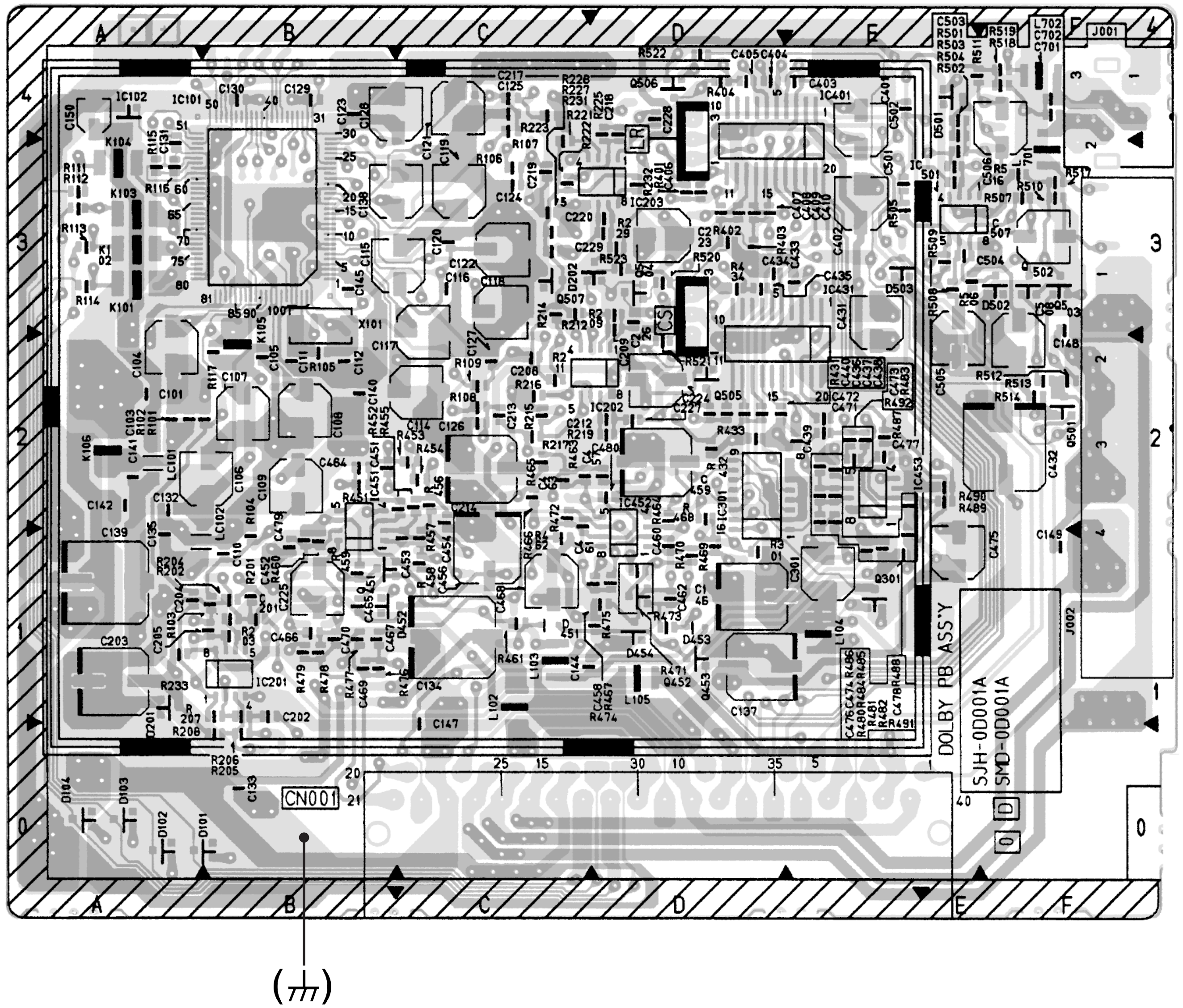

FRONT
(⏚)
S001 MENU
S002 CH DOWN
S003 CH UP
J001
J003
J004
J005
J006
CN016-2
RED
F
JVC
PWS
00.04.06
OKAMOTO
UL MARK
CKF1361-001-1 (2/2)

FRONT CONTROL PWB PATTERN (2/2)


FRONT
(⏚)
JVC
PWS
00.04.05
OKAMOTO
IC001
D007 CDS
D013 3D-PHONIC
D009 ECO
D012 TIMER
D010 POWER
Q006
Q007
Q005
Q003
Q004
Q001
Q002
UL MARK
CKF1361-001-1 (1/2)
ISOLATED
S901
VA901
C901
LF901
LF902
F901
T3.15AH 250V
LIVE
W
PW
CN016-1
RED
CN002

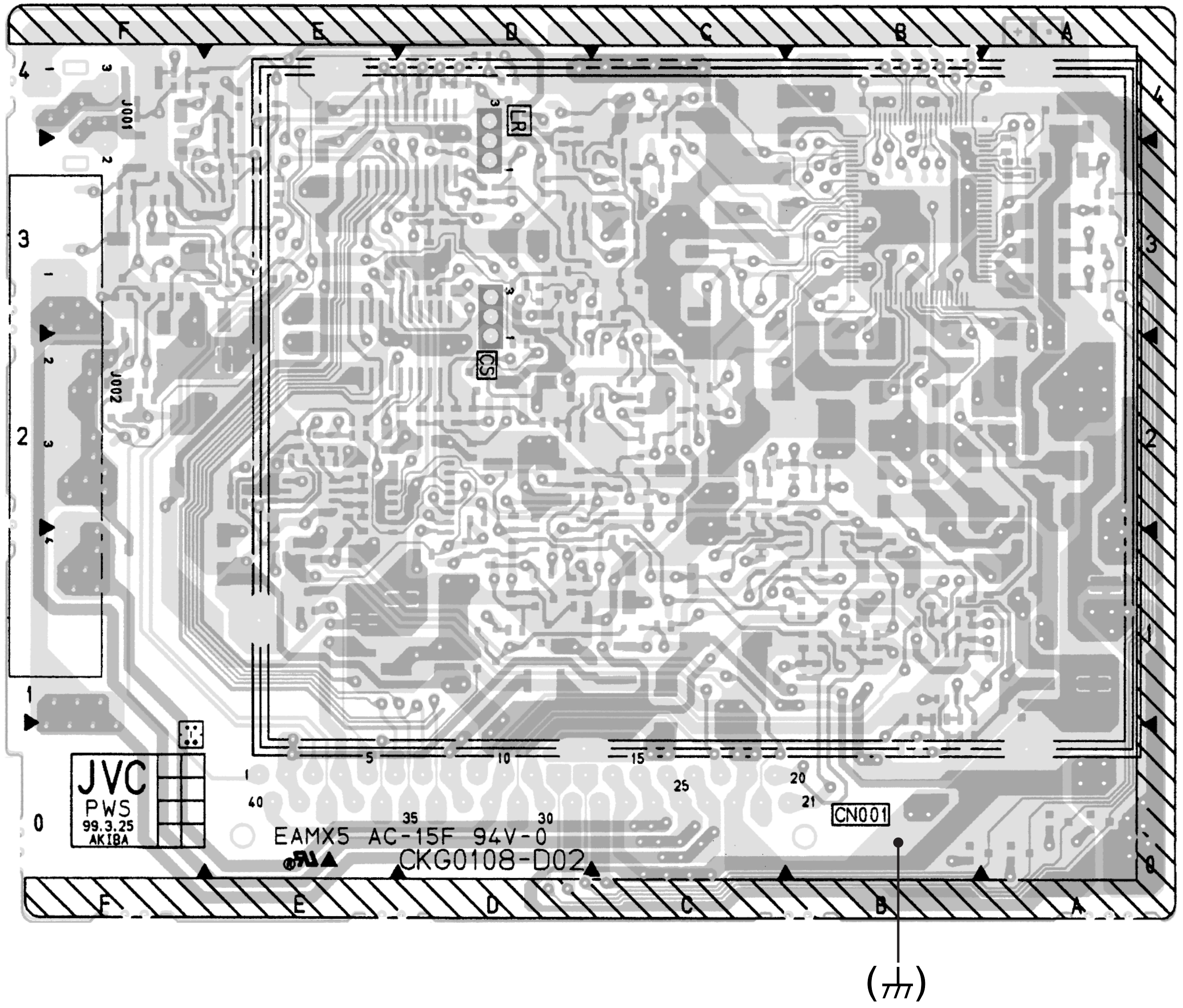
DOLBY PWB PATTERN (PARTS SIDE)

TOP

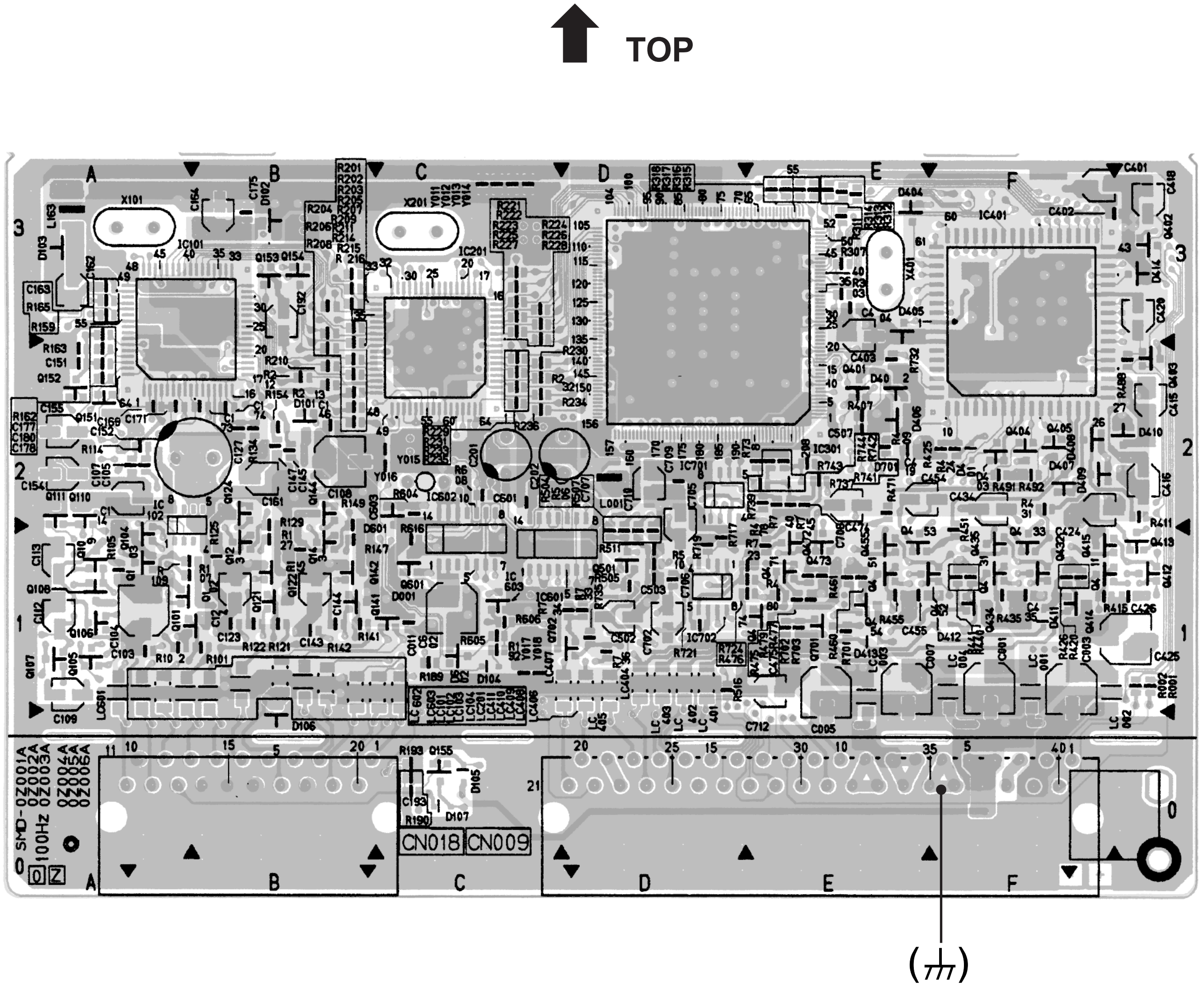

A
B
C
D
E
F
J001
IC101
IC102
IC201
IC202
IC401
IC431
CN001
J002
K101
K102
K103
K104
K105
K106
X101
DOLBY PB ASS'Y
SJH-0D001A
SMD-0D001A
4
3
2
1
0

DOLBY PWB PATTERN (SOLDER SIDE)

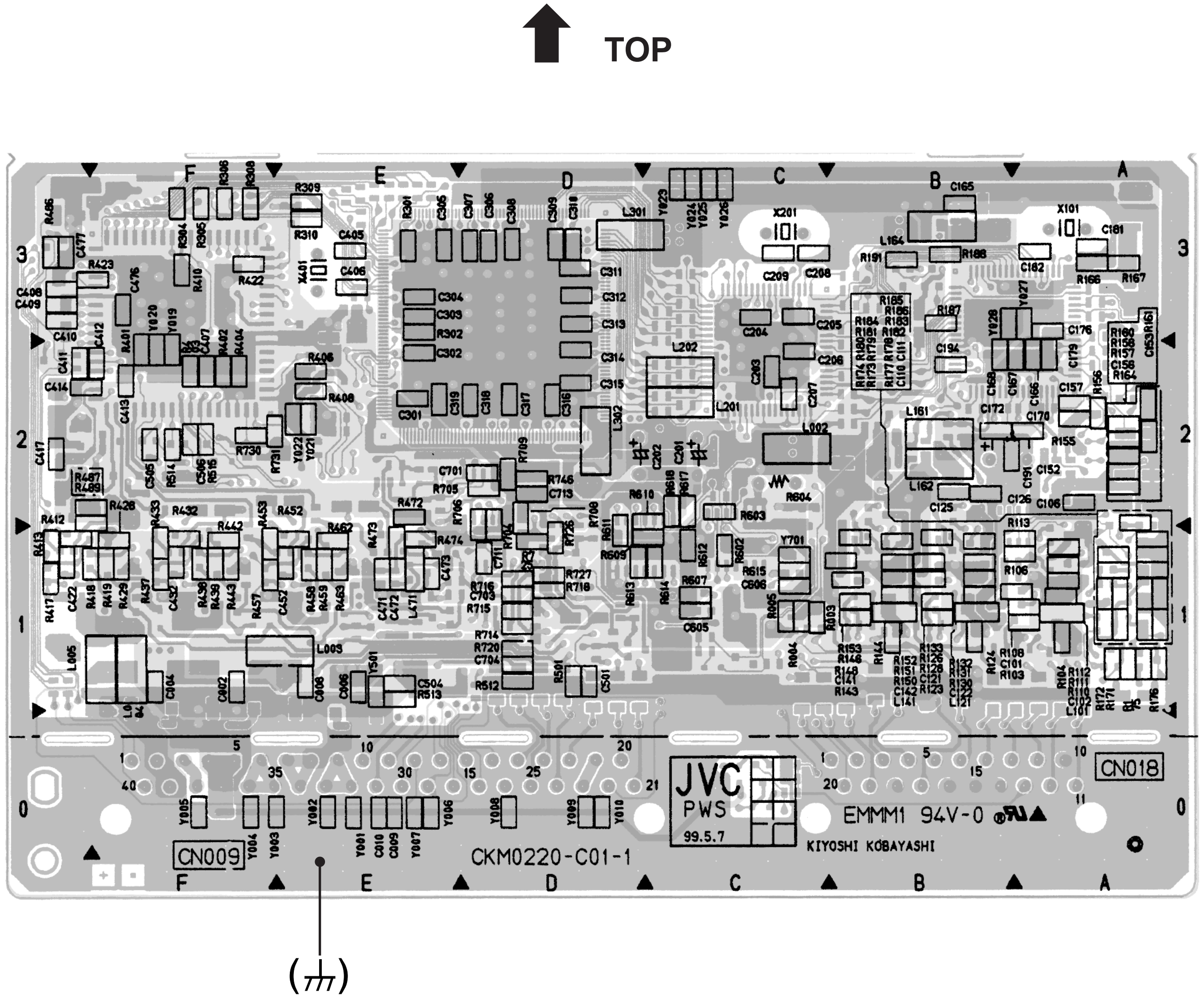
TOP


F
E
D
C
B
A
J001
J002
CN001
JVC
PWS
99.3.25
AKIBA
EAMX5 AC-15F 94V-0
CKG0108-D02
4
3
2
1
0

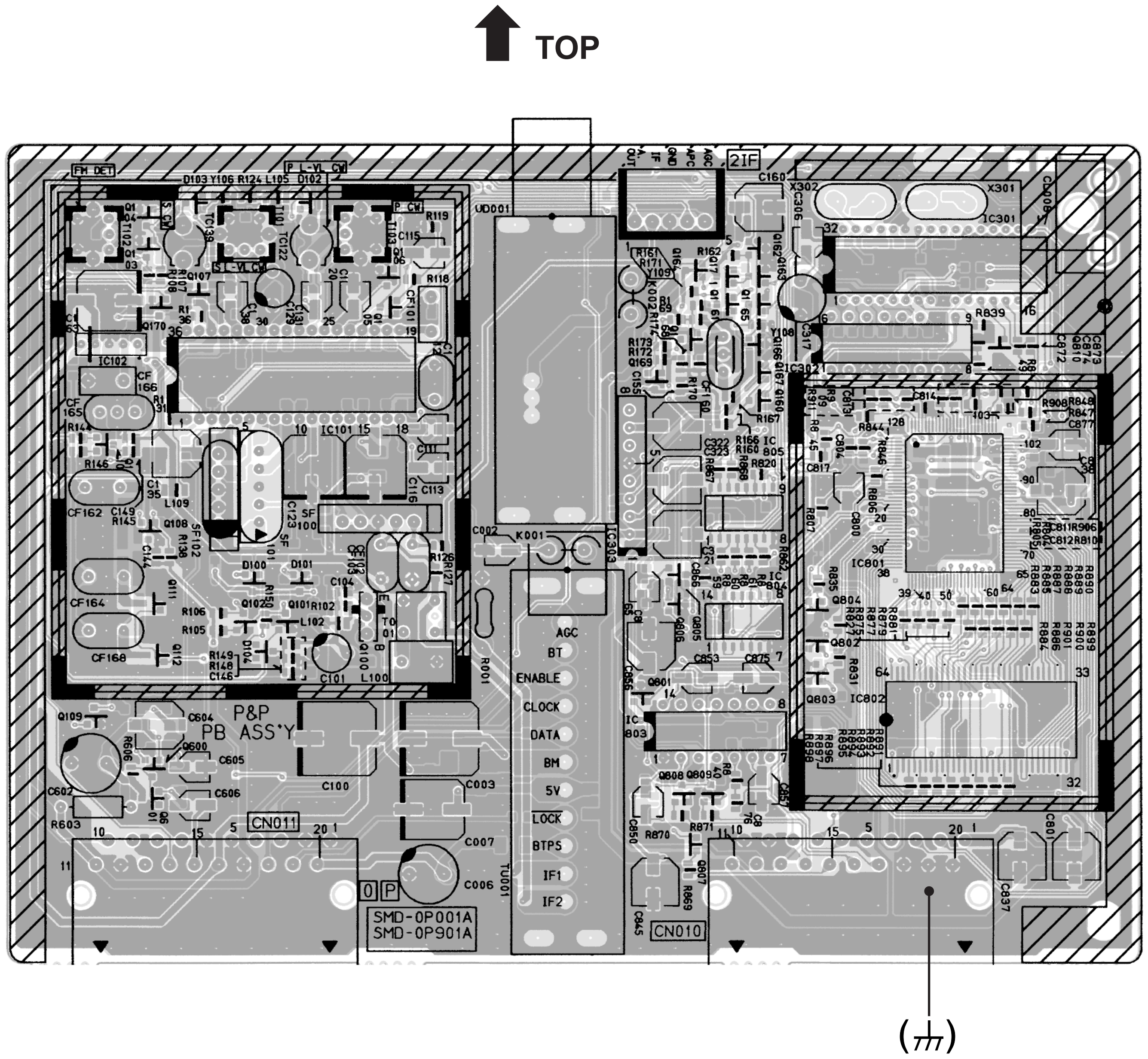
100Hz PWB PATTERN (PARTS SIDE)


TOP
A
B
C
D
E
F
3
2
1
0
CN018
CN009
SMD-0Z001A
100Hz 0Z003A
0Z004A
0Z005A
0Z006A
0Z
(⏚)

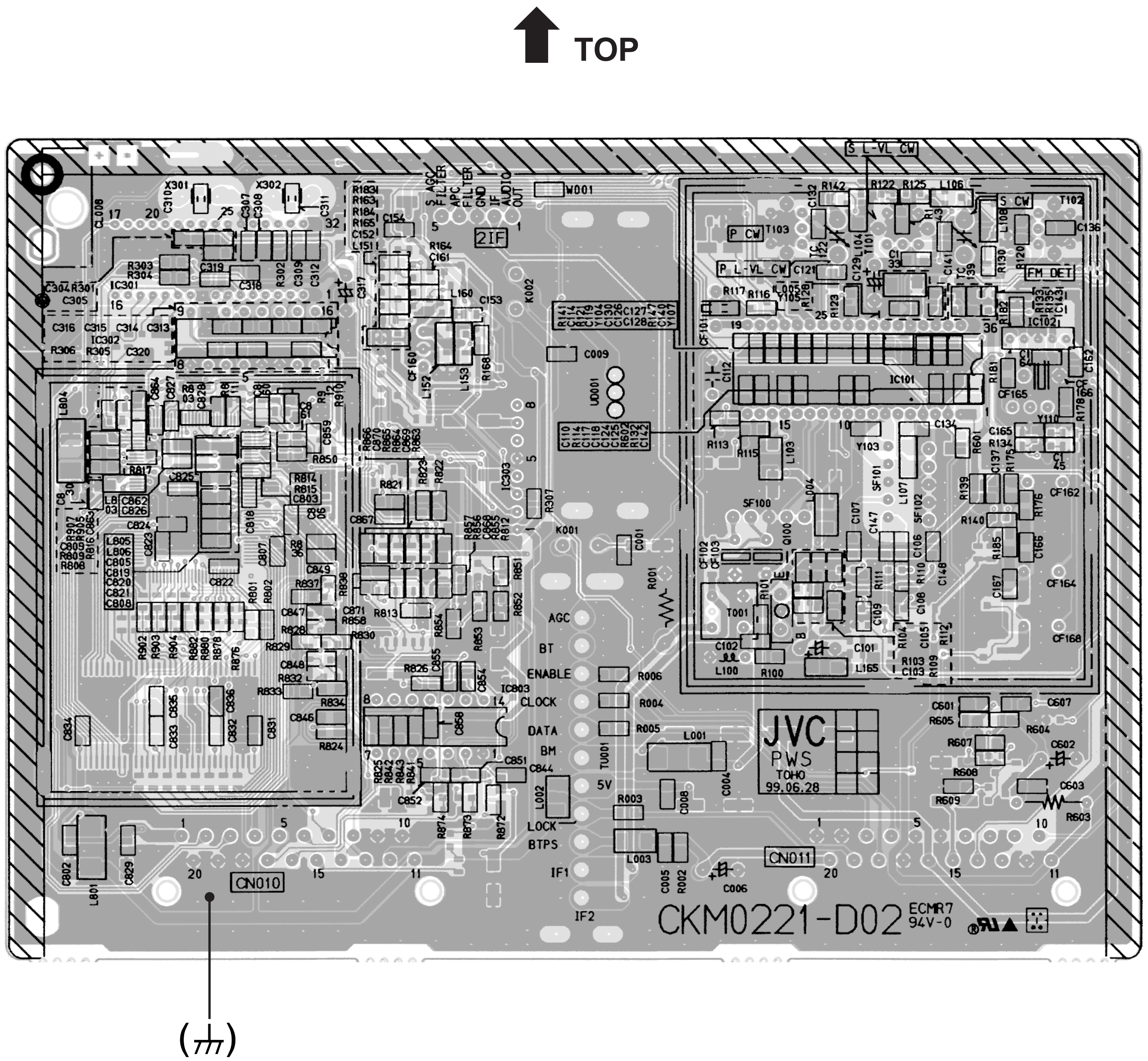
100Hz PWB PATTERN (SOLDER SIDE)


TOP
F
E
D
C
B
A
3
2
1
0
CN009
CN018
JVC
PWS
99.5.7
EMMM1 94V-0
CKM0220-C01-1
KIYOSHI KOBAYASHI
(⏚)

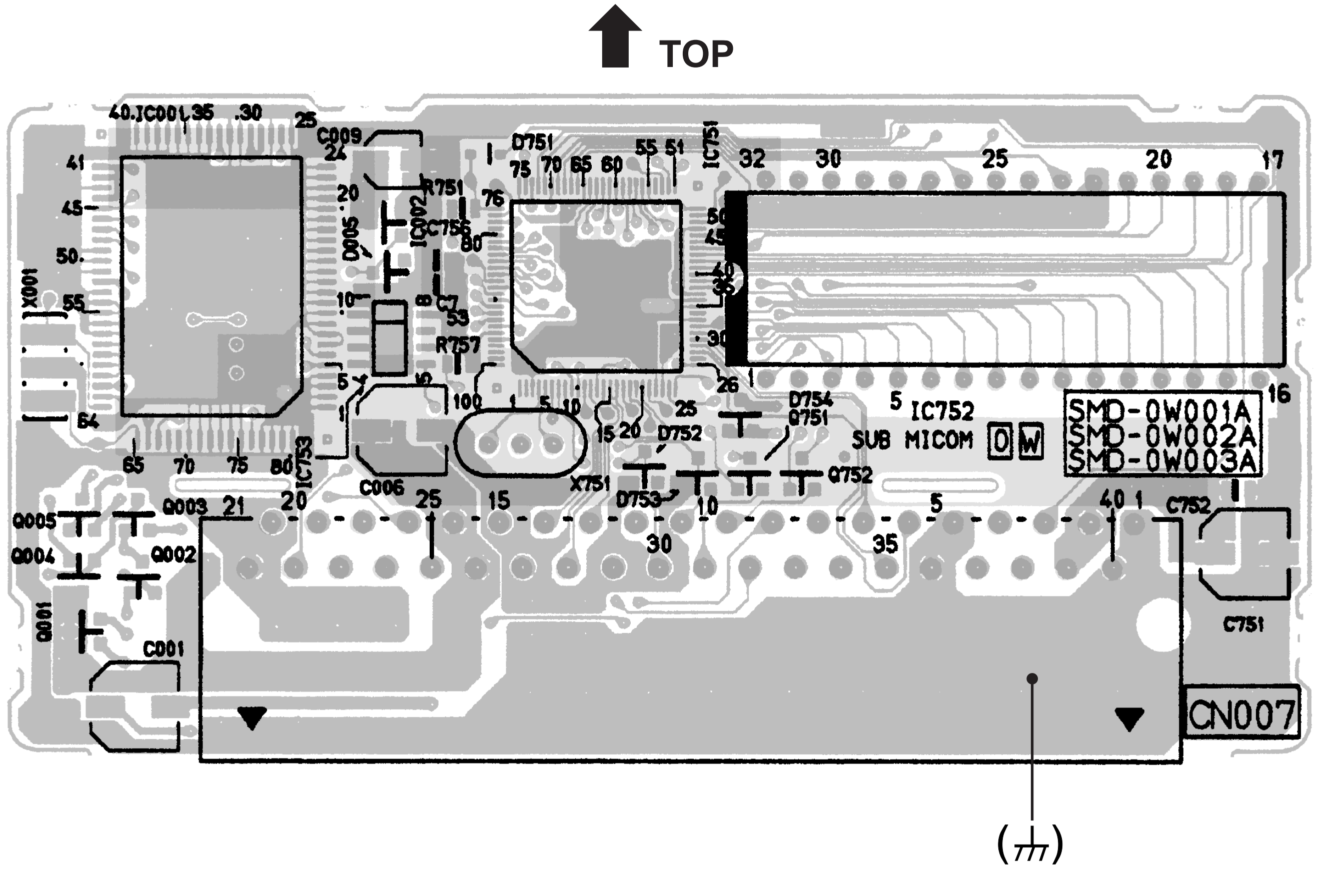
PIP PWB PATTERN (PARTS SIDE)


TOP
AGC
BT
ENABLE
CLOCK
DATA
BM
5V
LOCK
BTP5
IF1
IF2
TU001
P&P
PB ASS'Y
SMD-0P001A
SMD-0P901A
CN010
CN011
IC101
IC102
IC801
IC802
IC301
2IF
FM DET
P L-VL CW
S L-VL CW
S CW
P CW
(⏚)

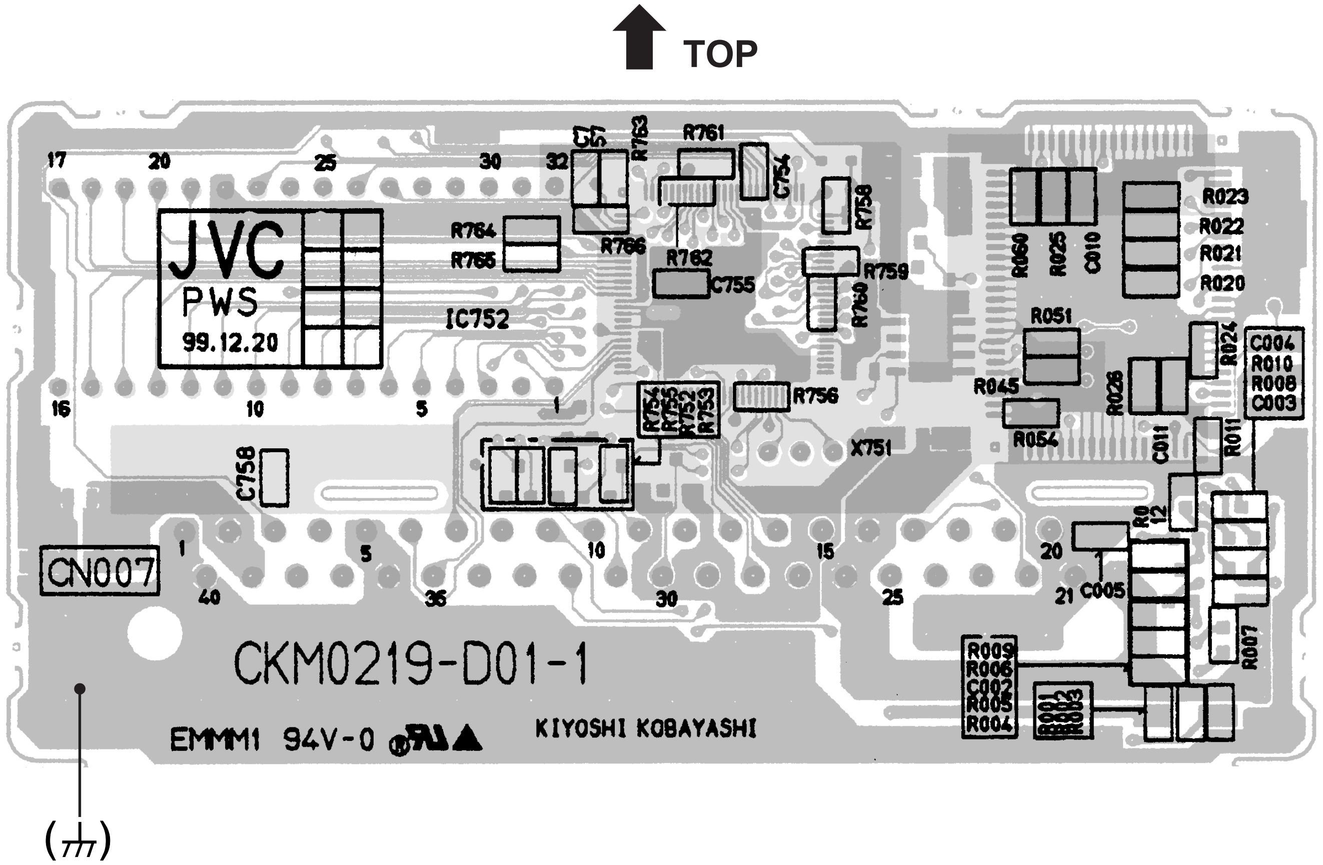
PIP PWB PATTERN (SOLDER SIDE)


TOP
AGC
BT
ENABLE
CLOCK
DATA
BM
5V
LOCK
BTPS
IF1
IF2
TU001
CN010
CN011
IC101
IC301
2IF
FM DET
P L-VL CW
S L-VL CW
S CW
P CW
JVC
PWS
TOHO
99.06.28
CKM0221-D02
ECMR7
94V-0
(⏚)

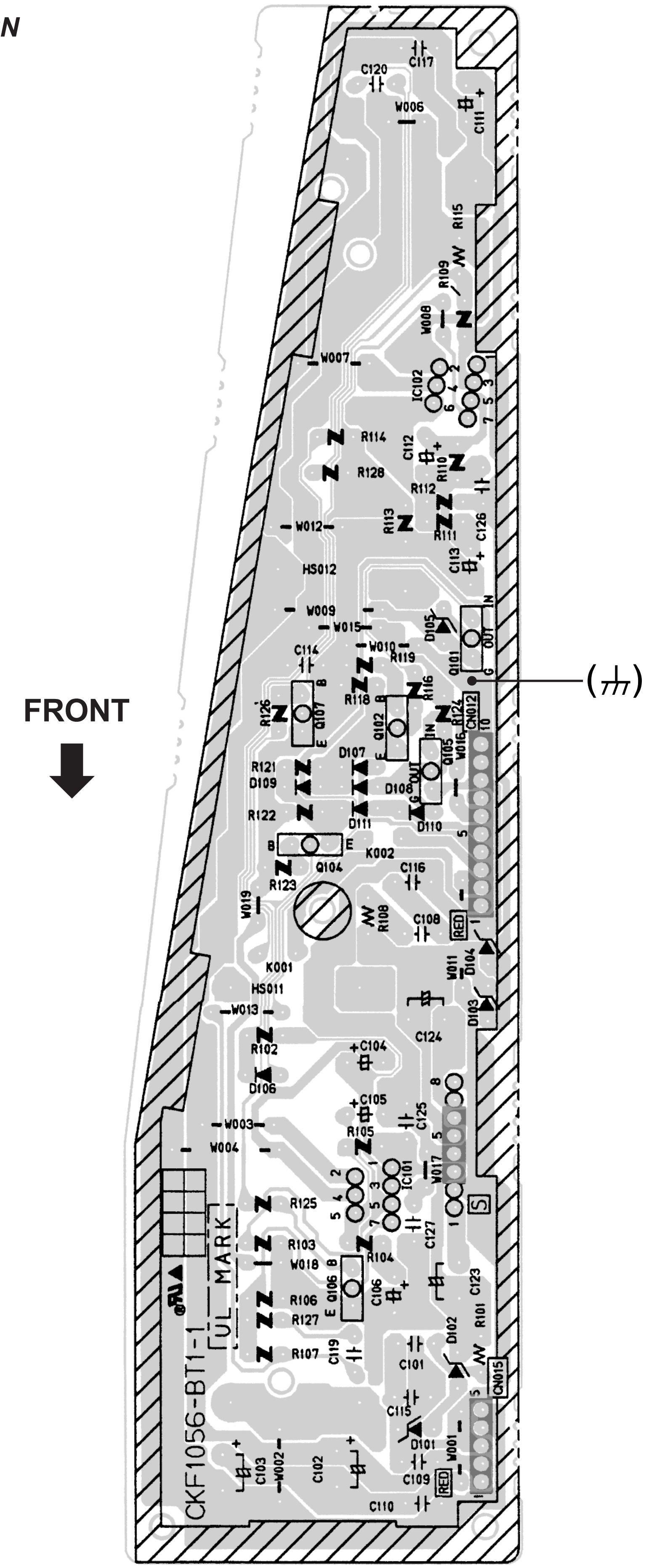
SUB MICON & AUTO PANORAMA PWB PATTERN (PARTS SIDE)


TOP
IC001
D751
IC751
C009
R751
IC002
D005
C756
C7
R757
IC753
X001
C006
X751
D752
D753
D754
Q751
Q752
IC752
SUB MICON
0W
SMD-0W001A
SMD-0W002A
SMD-0W003A
Q003
Q005
Q004
Q002
Q001
C001
C752
C751
CN007
(⏚)

SUB MICON & AUTO PANORAMA PWB PATTERN (SOLDER SIDE)


TOP
JVC
PWS
99.12.20
R764
R765
IC752
R763
C757
R761
R766
C754
R758
R762
C755
R759
R760
R060
R025
C010
R023
R022
R021
R020
R051
R024
C004
R010
R008
C003
R045
R028
R054
R756
X751
C011
R011
C758
CN007
C005
R007
R009
R006
C002
R005
R004
R001
R003
CKM0219-D01-1
EMMM1 94V-0
KIYOSHI KOBAYASHI
(⏚)

AUDIO PWB PATTERN


C120
C117
W006
C111
R115
R109
W008
W007
IC102
R114
C112
R128
R110
R112
R113
R111
C126
W012
C113
HS012
W009
W015
D105
Q101
OUT
C114
W010
R119
R126
Q107
R118
Q102
R116
R124
CN012
R121
D109
D107
D108
D106
W016
R122
D111
D110
K002
Q104
R123
C116
W019
R108
C108
RED
K001
HS011
W011
D104
W013
D103
C104
C124
R102
D106
C105
R105
W003
W004
C125
IC101
W017
R125
R103
W018
R104
C127
S
UL MARK
R106
R127
Q106
C106
C123
R101
D102
R107
C119
C101
CN015
CKF1056-BT1-1
C115
D101
W001
C103
W002
C102
C109
C110
FRONT
(⏚)

JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS
MD

AV-32WFP1EU(A)
AV-32WFP1EUI(A)
AV-32WFP1EK(A)

Supplementary

Since some details of the AV-32WFP1EU, AV-32WFP1EK (No.51550 Jun. 1999) & AV-32WFP1EUI (No.51550B Jan. 2000) SERVICE MANUAL were changed, we are informing you of the NEW SERVICE MANUAL (Revised edition, No.51550C Jun. 2000).
This revised edition contains some changes in the SERVICE ADJUSTMENTS, and REVISED PARTS LIST and STANDARD CIRCUIT DIAGRAM.
Please use this manual together with the previous SERVICE MANUAL (No.51550 Jun. 1999 / 51550B Jan. 2000).

■OUTLINE OF CHANGES

The CRT of this model has been changed to “**W76ERF031X044**” from “W76LPX955X01.” As a consequence, the printed wiring board has also been revised.
Please use this manual together with the previous SERVICE MANUAL.

CONTENTS

■ HOW TO IDENTIFY MODELS 2
■ SERVICE ADJUSTMENTS 2
★ STANDARD CIRCUIT DIAGRAM (APPENDIX) 2-1
■ PARTS LIST 3

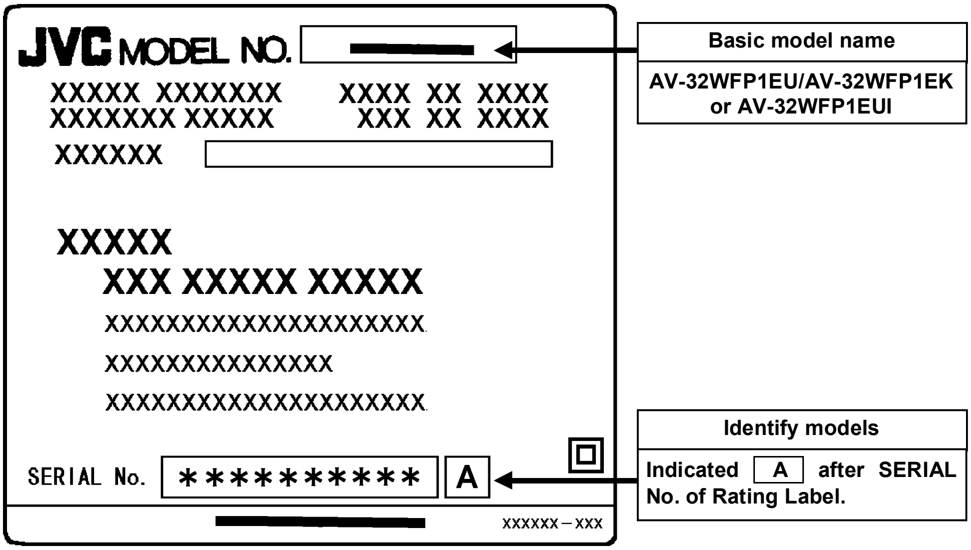
COPYRIGHT © 2000 VICTOR COMPANY OF JAPAN, LTD.

No.51550C
Jun. 2000

HOW TO IDENTIFY MODELS

While referring to the illustration given below, identify model name on the rating label affixed to the rear cover.

RATING LABEL


JVC MODEL NO.
XXXXX XXXXXXX XXXX XX XXXX
XXXXXXX XXXXX XXX XX XXXX
XXXXXX
XXXXX
XXX XXXXX XXXXX
XXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXX
SERIAL No.
****
A
XXXXXX－XXX

Basic model name

AV-32WFP1EU/AV-32WFP1EK or AV-32WFP1EUI

Identify models

Indicated A after SERIAL No. of Rating Label.

SERVICE ADJUSTMENTS

ADJUSTMENTS

- **Press refer to previous model adjustment.**

- **The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
- **Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.**

PARTS LIST

REVISED EDITION

CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

MAIN DIFFERENCE PARTS LIST 5
EXPLODED VIEW [I] 6
EXPLODED VIEW PARTS LIST [I] 7
EXPLODED VIEW PARTS LIST [II] 8
EXPLODED VIEW [II] 9

■ PRINTED WIRING BOARD PARTS LIST

AV-32WFP1EU(A) / AV-32WFP1EUI(A)

- MAIN PW BOARD ASS'Y 10
- POWER / DEF PW BOARD ASS’Y 14
- CRT SOCKET PW BOARD ASS'Y 16
- AUDIO PW BOARD ASS' Y 17
- FRONT CONTROL PW BOARD ASS'Y 17
- DOLBY PW BOARD ASS'Y 18
- IF PW BOARD ASS'Y 19
- AV TERMINAL PW BOARD ASS'Y 21
- PIP PW BOARD ASS'Y 21
- SUB MICON & AUTO PANORAMA PW BOARD ASS'Y 23
- 100Hz PW BOARD ASS'Y 24

AV-32WFP1EK(A)

- MAIN PW BOARD ASS'Y 27
- POWER / DEF PW BOARD ASS’Y 31
- CRT SOCKET PW BOARD ASS'Y 31
- AUDIO PW BOARD ASS' Y 31
- FRONT CONTROL PW BOARD ASS'Y 31
- DOLBY PW BOARD ASS'Y 31
- IF PW BOARD ASS'Y 31
- AV TERMINAL PW BOARD ASS'Y 32
- PIP PW BOARD ASS'Y 32
- SUB MICON & AUTO PANORAMA PW BOARD ASS'Y 34
- 100Hz PW BOARD ASS'Y 34

■ PACKING 35
■ PACKING PARTS LIST 35
■ REMOTE CONTROL UNIT PARTS LIST 36

MAIN DIFFERENCE PARTS LIST (between without “A” and with “A” model)

⚠	model name PWB name	Model No. & Parts No.		Remarks	
		AV-32WFP1EU / EUI	AV-32WFP1EU(A) / EUI(A)		
		AV-32WFP1EK	AV-32WFP1EK(A)		

- **USING PW BOARD (Page 5)**

	MAIN PWB	SMD-1001A-U2	**SMD-1008A-U2**	EU / EUI	Not interchangeable
		SMD-1901A-U2	**SMD-1904A-U2**	EK	↑
	POWER/DEF PWB	SMD-2001A-U2	**SMD-2008A-U2**	EU / EUI	↑
		↑	↑	EK	↑
	CRT SOCKET PWB	SMD-3001A-U2	**SMD-3005A-U2**	EU / EUI	↑
		↑	↑	EK	↑
	FRONT CONTROL PWB	SMD-8001A-U2	**SMD-8008A-U2**	EU / EUI	↑
		↑	↑	EK	↑
	100Hz PWB	SMD0Z001A-U2	**SMD0Z005A-U2**	EU / EUI	↑
		↑	↑	EK	↑
	IF PWB	SMD0F001A-U2	**SMD0F003A-U2**	EU / EUI	↑
		SMD0F902A-U2	**SMD0F903A-U2**	EK	↑

- **EXPLODED VIEW PARTS LIST (Page 7 & 8)**

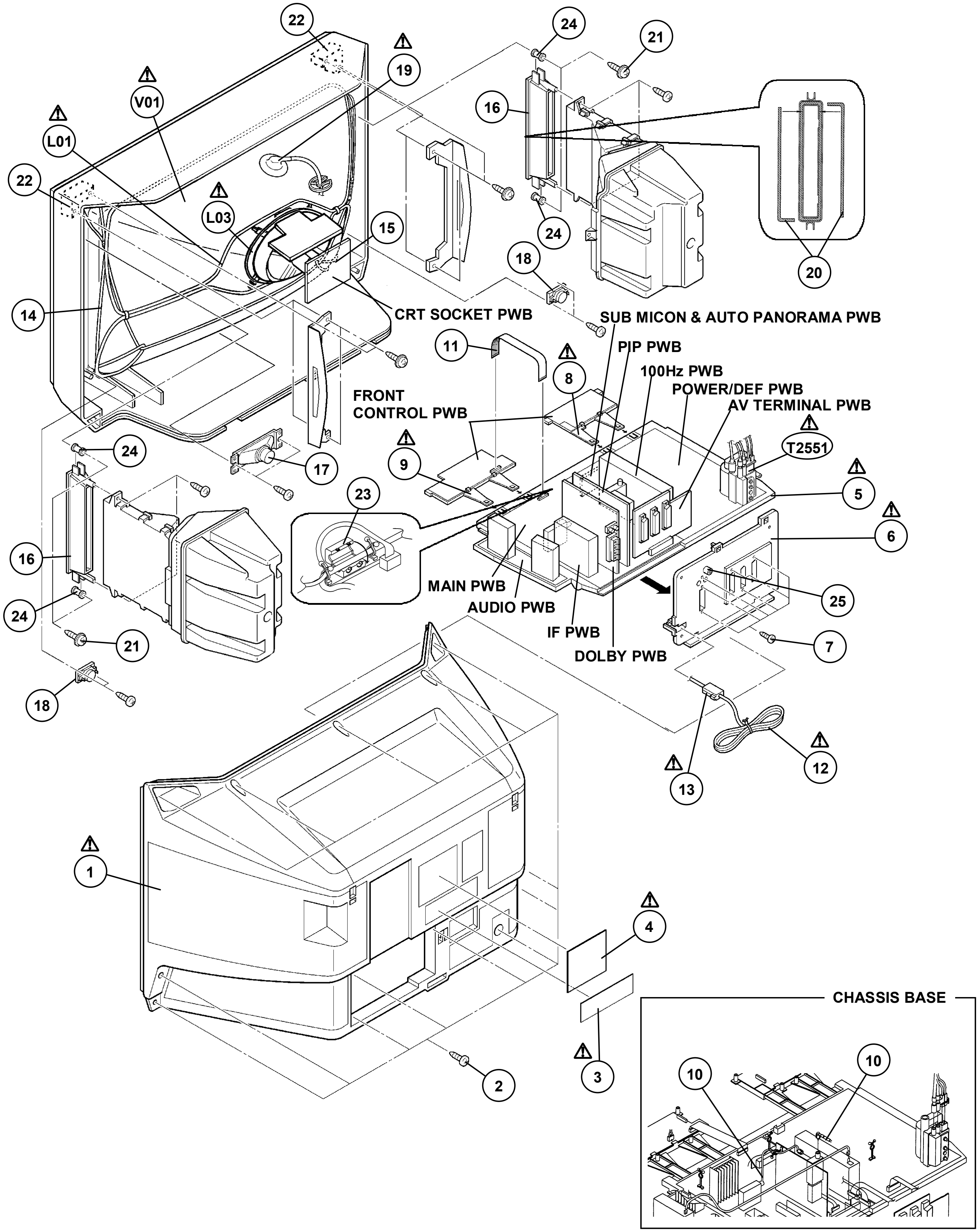
⚠	**PICTURE TUBE (ITC)**	W76LPX955X01	**W76ERF031X044**	V01	Not interchangeable
⚠	**DEG. COIL**	QQW0037-001	**QQW0066-001**	L01	↑
⚠	**ROTATION COIL**	QQW0040-001	**CELD904-001**	L03	↑
	E. BRAIDED	WJY0007-001A	**CHGB0029-0C**		↑
	SUB BRAIDED	——————	**CHGB0017-0B**		↑
⚠	**FBT(SERVICE)**	QQH0053-002-I2	**QQH0054-002-I2**	T2551	↑
⚠	**RATING LABEL**	LC20379-001A-U LC20380-001B-U	**LC20379-007A-U** **LC20380-007A-U**	EU	↑
		LC20080-006A-U	**LC20080-010A-U**	EUI	↑
		LC20091-002A-U	**LC20075-031A-U**	EK	↑

- **PACKING PARTS LIST (Page 35)**

	EURO LABEL	AEM1039-057-E	**AEM1052-005-E**	EU	Not interchangeable
		AEM1039-074-E	**AEM1052-004-E**	EUI	↑
		AEM1039-056-E	**AEM1052-003-E**	EK	↑
⚠	**INST BOOK**	LCT0337-001A-U LCT0338-001A-U LCT0339-001A-U	**LCT0037-002A-U** **LCT0038-002A-U** **LCT0339-002A-U**	EU	↑
		LCT0337-001A-U	**LCT0037-002A-U**	EUI	↑
		LCT0340-001A-U	**LCT0340-002A-U**	EK	↑
	PACKING CASE	AEM1002-065-E	**AEM1002-065-E**	EU / EUI / EK	↑
	X-RAR CARD	LC10102-009AU	**AEM1053-001-E**	EU	↑

AV-32WFP1EU(A) / AV-32WFP1EUI(A) / AV-32WFP1EK(A)

EXPLODED VIEW [I]


22
24
21
⚠ 19
⚠ V01
16
⚠ L01
22
⚠ L03
15
24
18
20
14
CRT SOCKET PWB
SUB MICON & AUTO PANORAMA PWB
11
⚠ 8
PIP PWB
100Hz PWB
POWER/DEF PWB
AV TERMINAL PWB
FRONT
CONTROL PWB
⚠ T2551
24
17
⚠ 9
⚠ 5
23
⚠ 6
16
MAIN PWB
AUDIO PWB
25
24
IF PWB
21
DOLBY PWB
7
18
⚠ 12
⚠ 13
⚠ 1
⚠ 4
CHASSIS BASE
⚠ 3
2
10
10

AV-32WFP1EU(A) / AV-32WFP1EUI(A) / AV-32WFP1EK(A)

EXPLODED VIEW PARTS LIST [I]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	L01	QQW0066-001	DEGAUSSING COIL	
⚠	L03	CELD904-001	ROTATION COIL	
⚠	T2551	QQH0054-002-I2	H.V.TRANSF.	(SERVICE)
⚠	V01	W76ERF031X044	ITC TUBE(C)	Inc.DY,PC,WED
⚠	1	LC10378-001D-U	REAR COVER	
	2	QYSBSAG4016N	TAPPING SCREW	(×13)For REAR COVER
⚠	3	LC20380-007A-U	RATING LABEL	For ENG/ESP/FRA
⚠	3	LC20075-031A-U	RATING LABEL	AV-32WFP1EK(A)
⚠	4	LC20379-007A-U	RATING LABEL	For ENG/GER/ITA AV-32WFP1EU(A)
⚠	4	LC20080-010A-U	RATING LABEL	AV-32WFP1EUI(A)
⚠	5	CM12923-A01-E	CHASSIS BASE	
⚠	6	LC10381-001D-U	AV BOARD	
	7	QYSBSB3012M	TAPPING SCREW	(×6)For AV BOARD
⚠	8	LC10380-001C-U	CONTROL BASE L	
⚠	9	LC10380-002B-U	CONTROL BASE R	
	10	CHGY0017-0A-YS	ANTENNA CABLE	(×2)
	11	CHFD125-14BD	FFC WIRE	
⚠	12	QMPK160-185-JC	POWER CORD	AV-32WFP1EU(A)
⚠	12	QMPN130-185-JC	POWER CORD	AV-32WFP1EUI(A)/AV-32WFP1EK(A)
⚠	13	CM46618-A01-E	POWER CORD CLAMP	
	14	CHGB0029-0C	BRAIDED ASSY	
	15	CHGB0017-0B	BRAIDED SUB ASSY	(×2)
	16	LC10379-001A-U	HORN ADAPTER	(×2)
	17	QAS0030-001	SPEAKER	SP03
	18	CEBSF02K-01KJ6	SPEAKER	(×2)SP04,SP05
⚠	19	QNZ0407-001	ANODE WIRE	
	20	LC30820-001C	SP SPACER	(×4)
	21	LC40506-001A	TAPPING SCREW	(×4)For HORN ADAPTER
	22	LC20508-001D-U	ADAPTOR	(×4)
	23	QQR0491-001	FILTER	
	24	LC40226-001A	SPACER	(×4)
	25	CE42112-002	PALJ CONNECTOR	AV-32WFP1EU(A)/AV-32WFP1EUI(A)
	25	CE42112-001	PALJ CONNECTOR	AV-32WFP1EK(A)

AV-32WFP1EU(A) / AV-32WFP1EUI(A) / AV-32WFP1EK(A)

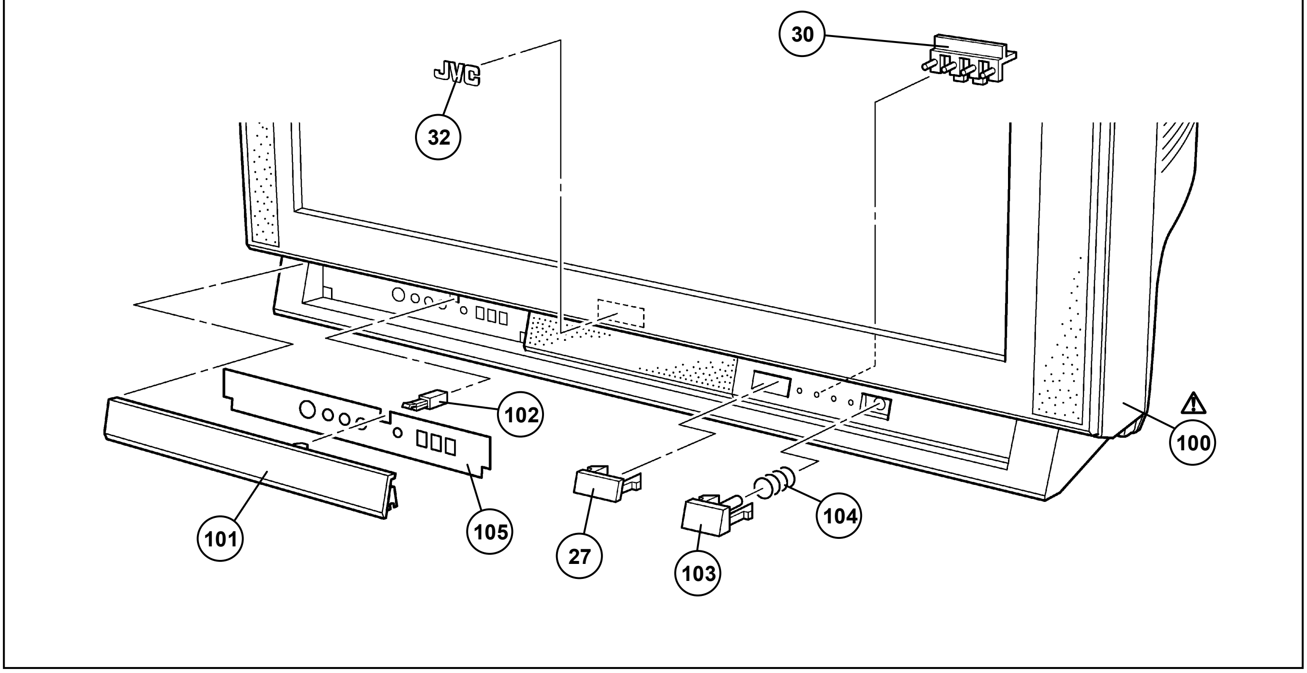
EXPLODED VIEW PARTS LIST [Ⅱ]

⚠ Ref.No.	Part No.	Part Name	Description
AV-32WFP1EU(A)			
22	CM12921-001-E	DOME ADAPTER	(×2)
23	CM12922-A01-E	DOME BOX	(×2)
24	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02
26	CHGS0033-0B	SPEAKER WIRE	(×2)
27	LC30579-001B-C	REMOCON WINDOW	
30	LC30580-001B-C	L.E.D.LENS	
32	LC40354-001C-C	JVC MARK	
⚠ 100	LC10376-001E-U	FRONT CABINET	Inc.No.101～105
101	LC20265-002A-U	DOOR	(SERVICE)
102	CM48229-00A-C	DOOR LATCH	
103	LC30578-002A-C	POWER KNOB	(SERVICE)
104	AEM3149-001-E	SPRING	
105	LC30597-002A-U	CONTROL SHEET	
200	2528MXSP-2SE	DOME SPK BOX	(×2)Inc.No.201～202
201	CM12463-D01-E	HORN	(×2)
202	CM12464-D01-E	HORN PANEL	(×2)
AV-32WFP1EUI(A)			
22	CM12921-001-E	ADAPTER	(×2)
23	CM12922-A01-E	SPEAKER BOX	(×2)
24	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02
26	CHGS0033-0B	SPEAKER WIRE	(×2)
27	LC30579-001B-C	REMOCON WINDOW	
30	LC30580-001B-C	L.E.D.LENS	
32	LC40354-001C-C	JVC MARK	
⚠ 100	LC10376-001E-U	FRONT CABINET	Inc.No.101～105
101	LC20265-002A-U	DOOR	(SERVICE)
102	CM48229-00A-C	DOOR LATCH	
103	LC30578-002A-C	POWER KNOB	(SERVICE)
104	AEM3149-001-E	SPRING	
105	LC30597-002A-U	CONTROL SHEET	
200	2528MXSP-2SE	DOME SPK BOX	(×2)Inc.No.201～202
201	CM12463-D01-E	HORN PANEL	(×2)
202	CM12464-D01-E	HORN PANEL	(×2)
AV-32WFP1EK(A)			
22	CM12921-001-E	DOME ADAPTER	(×2)
23	CM12922-A01-E	DOME BOX	(×2)
24	CEBSF10P-05KJ6	SPEAKER	(×2)SP01,SP02
26	CHGS0033-0B	SPEAKER WIRE	(×2)
27	LC30579-001B-C	REMOCON WINDOW	
30	LC30580-001B-C	L.E.D.LENS	
32	LC40354-001C-C	JVC MARK	
⚠ 100	LC10376-001E-U	FRONT CABINET	Inc.No.101～105
101	LC20265-002A-U	DOOR	(SERVICE)
102	CM48229-00A-C	DOOR LATCH	
103	LC30578-002A-C	POWER KNOB	(SERVICE)
104	AEM3149-001-E	SPRING	
105	LC30597-002A-U	CONTROL SHEET	
200	2528MXSP-2SE	DOME SPK BOX	(×2)Inc.No.201～202
201	CM12463-D01-E	HORN	(×2)
202	CM12464-D01-E	HORN PANEL	(×2)

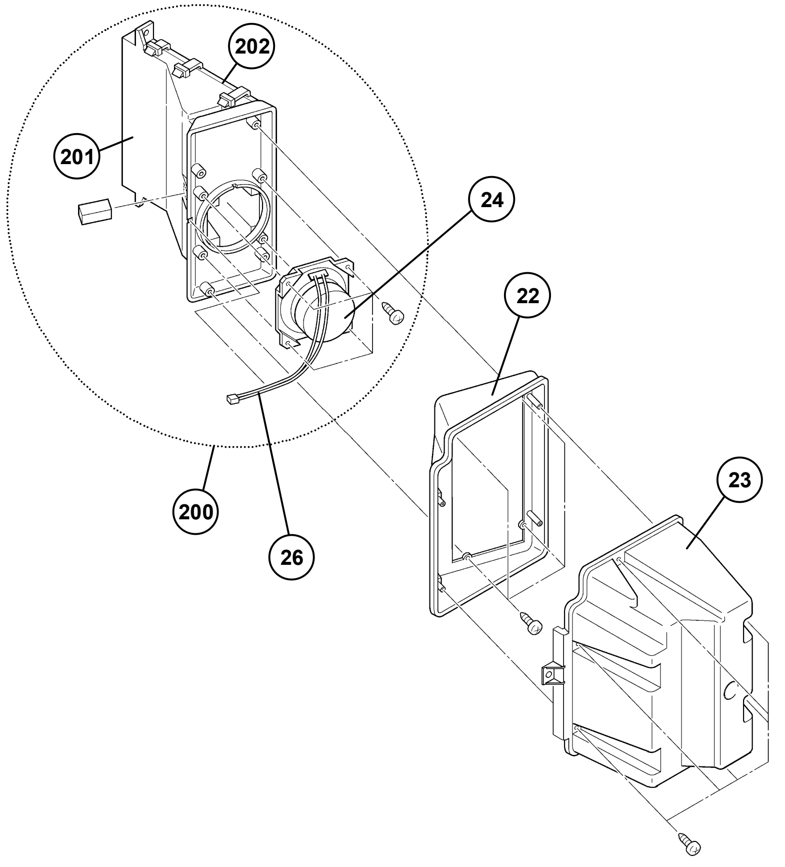
AV-32WFP1EU(A) / AV-32WFP1EUI(A) / AV-32WFP1EK(A)

EXPLODED VIEW [Ⅱ]

FRONT CABINET


30
JVC
32
102
100
101
105
27
104
103

SPEAKER


202
201
24
22
23
200
26

AV-28WFP1EU(A) / AV-32WFP1EUI(A)

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1008A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J
	R1204	QRK126J-151X	C R	150Ω 1/2W J
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J
	R1206	QRG01GJ-101	OM R	100Ω 1W J
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J
	RESISTOR			
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1228	NRSA02J-680X	MG R	68Ω 1/10W J
	R1229	QRK126J-181X	C R	180Ω 1/2W J
	R1231	QRG01GJ-101	OM R	100Ω 1W J
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1292	NRSA02J-471X	MG R	470Ω 1/10W J
	R1301	NRSA02J-101X	MG R	100Ω 1/10W J
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J
	R1303	NRSA02J-101X	MG R	100Ω 1/10W J
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J
	R1307	NRSA02J-101X	MG R	100Ω 1/10W J
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J
	R1309	NRSA02J-101X	MG R	100Ω 1/10W J
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J
	R1313	NRSA02J-101X	MG R	100Ω 1/10W J
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J
	R1316	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1319	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J
	R1321	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1331	NRSA02J-101X	MG R	100Ω 1/10W J
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1348	NRSA02J-471X	MG R	470Ω 1/10W J
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1382	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1383	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J
	R1405	QRL029J-221	OM R	220Ω 2W J
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
	R1601	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1602	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1610	NRSA02J-471X	MG R	470Ω 1/10W J
	R1611	NRSA02J-331X	MG R	330Ω 1/10W J
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1617-18	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1619-20	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1658-60	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J
	R1662-64	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1667	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1672	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R1673	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1674	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1675	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1676	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1677	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1678	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1679	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1680	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1689-90	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1691-92	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1693-94	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1700	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1701	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1702	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1703-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1707	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J
	R1740-42	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1748	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1782	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1784-86	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1787	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1788	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1789	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1792	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1795	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1796	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J
	R1897	QRG029J-220	OM R	22 Ω 2W J
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1001	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1002	QETN1HM-107Z	E CAP.	100μF 50V M
	C1003	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1004	QETN1CM-107Z	E CAP.	100μF 16V M
	C1005	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1006	QETN1CM-227Z	E CAP.	220μF 16V M
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K
	C1008	QETN1HM-106Z	E CAP.	10μF 50V M
	C1101-02	QETN1CM-107Z	E CAP.	100μF 16V M
	C1104	QETN1EM-476Z	E CAP.	47μF 25V M
	C1105	QENC1HM-474Z	BP E CAP.	0.47μF 50V M
	C1106	QETN1HM-106Z	E CAP.	10μF 50V M
	C1107	QETN1AM-227Z	E CAP.	220μF 10V M
	C1121-22	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1123	QETN1EM-476Z	E CAP.	47μF 25V M
	C1124-25	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1128	QETN1CM-107Z	E CAP.	100μF 16V M
	C1129	QETN1EM-476Z	E CAP.	47μF 25V M
	C1130	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1131	QETN1EM-476Z	E CAP.	47μF 25V M
	C1132	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1134	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J
	C1136-39	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1140	QETN1EM-476Z	E CAP.	47μF 25V M
	C1141	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1151	QETN1AM-227Z	E CAP.	220μF 10V M
	C1152	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1153	QETN1AM-107Z	E CAP.	100μF 10V M
	C1154	NDC21HJ-121X	C CAP.	120pF 50V J
	C1155	QETN1EM-476Z	E CAP.	47μF 25V M
	C1161	QETN1EM-476Z	E CAP.	47μF 25V M
	C1163	QETN1EM-476Z	E CAP.	47μF 25V M
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J
	C1192	QETN1CM-227Z	E CAP.	220μF 16V M
	C1193	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1201	QETN1CM-227Z	E CAP.	220μF 16V M
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K
	C1203-04	QETN1HM-105Z	E CAP.	1μF 50V M
	C1205-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1207	QETN1CM-227Z	E CAP.	220μF 16V M
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K
	C1212-13	QETN1HM-105Z	E CAP.	1μF 50V M
	C1214-15	QETN1HM-106Z	E CAP.	10μF 50V M
	C1216-17	QETN1HM-105Z	E CAP.	1μF 50V M
	C1218-19	QETN1EM-476Z	E CAP.	47μF 25V M
	C1220	QETN1HM-105Z	E CAP.	1μF 50V M
	C1221-22	QETN1CM-107Z	E CAP.	100μF 16V M
	C1223-24	QETN1HM-105Z	E CAP.	1μF 50V M
	C1231-33	QETN1EM-476Z	E CAP.	47μF 25V M
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K
	C1301	QETN1CM-227Z	E CAP.	220μF 16V M
	C1302	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1303	QETN1EM-476Z	E CAP.	47μF 25V M
	C1304	QENC1CM-476Z	BP E CAP.	47μF 16V M
	C1305	QETN1HM-226Z	E CAP.	22μF 50V M
	C1306	NCB21HK-223X	C CAP.	0.022μF 50V K
	C1307-08	QENC1HM-105Z	BP E CAP.	1μF 50V M
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K
	C1315	NCB21CK-474X	C CAP.	0.47μF 16V K
	C1316	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1317	NCB21EK-154X	C CAP.	0.15μF 25V K
	C1318	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K
	C1320	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J
	C1323	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1327	QETN1CM-227Z	E CAP.	220μF 16V M
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J
	C1362	NDC21HJ-330X	C CAP.	33pF 50V J
	C1363-65	QETN1HM-106Z	E CAP.	10μF 50V M
	C1381-84	QETN1EM-476Z	E CAP.	47μF 25V M
	C1387-88	QETN1EM-476Z	E CAP.	47μF 25V M
	C1389-90	QETN0JM-228Z	E CAP.	2200μF 6.3V M
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1403	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1404	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J
	C1406	QETM1VM-108	E CAP.	1000μF 35V M
	C1408	QETN1VM-337Z	E CAP.	330μF 35V M
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47μF 50V J
	C1412	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1417-18	QETN1CM-108Z	E CAP.	1000μF 16V M
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K
	C1461	QETN1HM-226Z	E CAP.	22μF 50V M
	C1551-52	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1553	QETN1EM-476Z	E CAP.	47μF 25V M
	C1554-55	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J
	C1603-04	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1605-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1607-08	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1609-12	QETN1HM-105Z	E CAP.	1μF 50V M
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J
	C1615	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1616-18	QETN1HM-106Z	E CAP.	10μF 50V M
	C1619	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1620	QETN1HM-106Z	E CAP.	10μF 50V M
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K
	C1629	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1630	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1631	QETN1CM-107Z	E CAP.	100μF 16V M
	C1632	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1643	QETN1HM-105Z	E CAP.	1μF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J
	C1651-53	QETN1HM-105Z	E CAP.	1µF 50V M
	C1654	QETN1HM-107Z	E CAP.	100µF 50V M
	C1655	QETN1HM-106Z	E CAP.	10µF 50V M
	C1656-57	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1658	QETM1HM-228	E CAP.	2200µF 50V M
	C1659-62	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1663-65	QETM1VM-108	E CAP.	1000µF 35V M
	C1667	QETN1CM-227Z	E CAP.	220µF 16V M
	C1668-69	QETN1HM-105Z	E CAP.	1µF 50V M
	C1670	QETN1HM-106Z	E CAP.	10µF 50V M
	C1671	QETN1EM-476Z	E CAP.	47µF 25V M
	C1672	NDC21HJ-100X	C CAP.	10pF 50V J
	C1673	QETN1HM-105Z	E CAP.	1µF 50V M
	C1674	NDC21HJ-100X	C CAP.	10pF 50V J
	C1675	QETN1HM-105Z	E CAP.	1µF 50V M
	C1679	QETN1HM-106Z	E CAP.	10µF 50V M
	C1680-81	NDC21HJ-221X	C CAP.	220pF 50V J
	C1682	QETN1CM-227Z	E CAP.	220µF 16V M
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K
	C1703	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1704	QETN1AM-107Z	E CAP.	100µF 10V M
	C1705-06	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
	C1707	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1708	NCB21HK-333X	C CAP.	0.033µF 50V K
	C1709	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1710	QETN1EM-476Z	E CAP.	47µF 25V M
	C1711	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1712	NCB21HK-333X	C CAP.	0.033µF 50V K
	C1713	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1714	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1715	QETN1EM-476Z	E CAP.	47µF 25V M
	C1717	QETN1HM-106Z	E CAP.	10µF 50V M
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J
	C1719	NCF21CZ-105X	C CAP.	1µF 16V Z
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J
	C1758	QETN1AM-227Z	E CAP.	220µF 10V M
	C1759	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J
	C1762	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1763	QETN1EM-476Z	E CAP.	47µF 25V M
	C1764	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1769-71	QETN1HM-106Z	E CAP.	10µF 50V M
	C1772	QETN1EM-476Z	E CAP.	47µF 25V M
	C1773	QETN1CM-107Z	E CAP.	100µF 16V M
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J
	C1780	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J
	C1784	QETN1CM-227Z	E CAP.	220µF 16V M
	C1785	NCB21HK-102X	C CAP.	1000pF 50V K
	C1901	QETN1CM-107Z	E CAP.	100µF 16V M
	C1902	QETN1HM-106Z	E CAP.	10µF 50V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T1101	CE42697-001	LOWPASS FILTER	
	T1111	CE42697-001	LOWPASS FILTER	
	T1121	CE42697-001	LOWPASS FILTER	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1001-02	QQL01BK-8R2Z	PEAKING COIL	8.2µH
	L1003	QQL01BK-221Z	PEAKING COIL	220µH
	L1004	QQL01BK-5R6Z	PEAKING COIL	5.6µH

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1102-05	QQL03BJ-220Z	PEAKING COIL	22µH
	L1111	QQL03BJ-220Z	PEAKING COIL	22µH
	L1121	QQL03BJ-330Z	PEAKING COIL	33µH
	L1301	QQL01BK-390Z	PEAKING COIL	39µH
	L1302	NQL024J-5R6X	COIL	5.6µH
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1604	QQL01BJ-180Z	PEAKING COIL	18µH
	L1605	QQL01BJ-220Z	PEAKING COIL	22µH
	L1701	QQL01BK-4R7Z	PEAKING COIL	4.7µH
	L1702	QQL01BK-3R9Z	PEAKING COIL	3.9µH
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1753	QQL01BK-4R7Z	PEAKING COIL	4.7µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1201-11	MA3130/H/-X	ZENER DIODE	
	D1214-15	MA3130/H/-X	ZENER DIODE	
	D1402	BYD33D-T3	SI.DIODE	
	D1403-04	MA3330/L/-X	ZENER DIODE	
	D1461	MA111-X	SI.DIODE	
	D1462	MA3220/M/-X	ZENER DIODE	
	D1502	MA111-X	SI.DIODE	
	D1504	MA111-X	SI.DIODE	
	D1653-55	MA3330/L/-X	ZENER DIODE	
	D1658	MA153A-X	SI.DIODE	
	D1660	MA111-X	SI.DIODE	
	D1661	MA153A-X	SI.DIODE	
	D1664-65	MA111-X	SI.DIODE	
	D1666	MA3062/M/-X	ZENER DIODE	
	D1667-68	MA3150/M/-X	ZENER DIODE	
	D1701-02	MA111-X	SI.DIODE	
	D1704	1SS244-T2	SI.DIODE	
	D1708	MA111-X	SI.DIODE	
	D1709	MA3068/M/-X	ZENER DIODE	
	D1712	MA111-X	SI.DIODE	
	D1751-53	MA111-X	SI.DIODE	
	D1754	MA3062/M/-X	ZENER DIODE	
	D1771-74	MA3056/M/-X	ZENER DIODE	
	D1901	MA3130/H/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR	
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR	
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR	
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR	
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1301	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1345	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1601	DTC323TK-X	DIGI.TRANSISTOR	
	Q1602	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1654-56	DTC323TK-X	DIGI.TRANSISTOR	
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR	

⚠	Symbol No.	Part No.	Part Name	Description
	TRANSISTOR			
	Q1658-60	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1753	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR	
	IC			
	IC1101	TC9090AN	I.C.(DIGI-MOS)	
	IC1301	CXA1545AS	I.C.(MONO-ANA)	
	IC1302	LA7222	I.C.(MONO-ANA)	
	IC1303	TDA9143/N3	I.C.(MONO-ANA)	
	IC1304	TDA4665/V5	I.C.(MONO-ANA)	
	IC1305	LA7016	I.C.(MONO-ANA)	
	IC1401	LA7841	I.C.(MONO-ANA)	
	IC1551	LA6515	I.C.(MONO-ANA)	
	IC1601	MSP3410D-PP-C5	I.C.(DIGI-OTHER)	
	IC1651	TA8256BH	I.C.(HYBRID)	
	IC1652	BA4558F-X	I.C.(MONO-ANA)	
	IC1701	M37280MK-120SP	I.C(MICRO-COMP)	
	IC1702	L78LR05E-MA	I.C.(MONO-ANA)	
	IC1703	AT24C1632WFP1	I.C.	(SERVICE)
	IC1754	SDA5275S	I.C.(MICRO-PROC)	
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)	
	IC1756	TC4053BP/N/	I.C.(DIGI-MOS)	
	OTHERS			
	CN1002	QGF1220C2-25	FFC/FPC CONNECTO	
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1101	QQR0621-002Z	BEADS CORE	
	K1401	QQR0621-002Z	BEADS CORE	
	K1701	QQR0621-002Z	BEADS CORE	
	LC1101	TA78L005AP-T	I.C.(H)	
	LC1601	CE42142-103Z	EMI FILTER	
	TU1001	CEEK481-A04	TUNER	
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X1311	CE40749-001Z	CRYSTAL	
	X1312	CE40668-001Z	CRYSTAL	
	X1601	CE42546-001Z	CRYSTAL	
	X1701	CST8.00MTW	CER.RESONATOR	
	X1752	QAX0351-001Z	CRYSTAL	
	Y1306	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1314	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	Y1315-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1651-52	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1654	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1659-60	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1750-51	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

POWER / DEF PW BOARD ASS’Y (SMD-2008A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R2451	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R2455	QRE141J-102Y	C R	1kΩ 1/4W J
	R2456	QRE141J-473Y	C R	47kΩ 1/4W J
	R2457	QRE141J-103Y	C R	10kΩ 1/4W J
	R2458	QRA14CF-1002Y	MF R	10kΩ 1/4W F
	R2459	QRE141J-391Y	C R	390Ω 1/4W J
	R2461	QRE141J-102Y	C R	1kΩ 1/4W J
	R2463	QRG029J-820	OM R	82 Ω 2W J
	R2464	QRX01GJ-2R2	MF R	2.2Ω 1W J
	R2465	QRE141J-103Y	C R	10kΩ 1/4W J
	R2468	QRE141J-473Y	C R	47kΩ 1/4W J
	R2470	QRE141J-103Y	C R	10kΩ 1/4W J
	R2501	QRE141J-471Y	C R	470Ω 1/4W J
	R2502	QRE141J-123Y	C R	12kΩ 1/4W J
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2504	QRG039J-272	OM R	2.7kΩ 3W J
	R2505	QRG039J-332	OM R	3.3kΩ 3W J
	R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J
	R2507	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K
	R2509	QRE141J-563Y	C R	56kΩ 1/4W J
	R2510	QRE141J-333Y	C R	33kΩ 1/4W J
	R2511	QRE141J-102Y	C R	1kΩ 1/4W J
	R2522	QRE121J-471Y	C R	470Ω 1/2W J
⚠	R2551	QRZ9017-4R7	F R	4.7Ω 1/4W J
⚠	R2552	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
⚠	R2553	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
	R2554-55	QRE141J-392Y	C R	3.9kΩ 1/4W J
	R2557	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R2561	QRZ0056-103Z	COMP.R	10kΩ 1/2W K
	R2574	QRG029J-220	OM R	22 Ω 2W J
	R2575	QRE121J-123Y	C R	12kΩ 1/2W J
	R2581	QRF154K-4R7	UNF R	4.7Ω 15W K
	R2582	QRE141J-681Y	C R	680Ω 1/4W J
	R2583	QRE121J-682Y	C R	6.8kΩ 1/2W J
	R2584	QRE141J-183Y	C R	18kΩ 1/4W J
	R2585	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R2586	QRA14CF-7501Y	MF R	7.5kΩ 1/4W F
	R2587	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F
	R2588	QRE141J-103Y	C R	10kΩ 1/4W J
	R2901	QRF104K-3R9	UNF R	3.9Ω 10W K
	R2902	QRE121J-331Y	C R	330Ω 1/2W J
	R2903-04	QRE121J-474Y	C R	470kΩ 1/2W J
	R2905	QRL039J-823	OM R	82kΩ 3W J
	R2906	QRG039J-683	OM R	68kΩ 3W J
⚠	R2907	QRZ9017-4R7	F R	4.7Ω 1/4W J
	R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2909	QRT029J-R39	MF R	0.39Ω 2W J
	R2910	QRM059J-R15	MP R	0.15Ω 5W J
	R2911	QRE121J-681Y	C R	680Ω 1/2W J
	R2912	QRE121J-332Y	C R	3.3kΩ 1/2W J
	R2913	QRL039J-823	OM R	82kΩ 3W J
	R2923	QRE121J-102Y	C R	1kΩ 1/2W J
	R2951	QRF074J-102	UNF R	1kΩ 7W J
	R2952	QRG029J-103	OM R	10kΩ 2W J
	R2953	QRG029J-183	OM R	18kΩ 2W J
	R2954	QRE141J-330Y	C R	33Ω 1/4W J
	R2955	QRE141J-681Y	C R	680Ω 1/4W J
	R2956	QRX029J-R47	MF R	0.47 Ω 2W J
	R2957	QRG029J-100	OM R	10 Ω 2W J
	R2960	QRE141J-153Y	C R	15kΩ 1/4W J
	R2961	QRE141J-182Y	C R	1.8kΩ 1/4W J
	R2962	QRE141J-153Y	C R	15kΩ 1/4W J
	R2963	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2968	QRE141J-103Y	C R	10kΩ 1/4W J
	R2969	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2970	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R2971	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2983	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R2984	QRE141J-104Y	C R	100kΩ 1/4W J
	R2985-86	QRE141J-103Y	C R	10kΩ 1/4W J
	R2987	QRE121J-680Y	C R	68Ω 1/2W J
⚠	R2991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C2451	QCS31HJ-470Z	C CAP.	47pF 50V J
	C2452	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C2453	QETN1EM-476Z	E CAP.	47μF 25V M
	C2454	QETN1HM-106Z	E CAP.	10μF 50V M
	C2455	QFLC1HJ-102Z	M CAP.	1000pF 50V J
	C2456	QFM72DJ-122Z	M CAP.	1200pF 200V J
	C2457	QFM72DJ-152Z	M CAP.	1500pF 200V J
	C2458	QEZ0472-106Z	E CAP.	10μF 250V M
	C2459	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2460	QFP31HJ-272Z	PP CAP.	2700pF 50V J
	C2461	QFLC1HJ-182Z	M CAP.	1800pF 50V J
	C2501	QCB32HK-331Z	C CAP.	330pF 500V K
	C2502	QFM72DK-103	M CAP.	0.01μF 200V K
	C2503	QFV71HJ-224Z	MF CAP.	0.22μF 50V J
⚠	C2521	QFZ0122-112	MPP CAP.	1100pF1.8kVH ±3%
⚠	C2522	QFZ0200-113	MPP CAP.	0.011μF1.5kVH ±3%
	C2523	QFM72DK-393	M CAP.	0.039μF 200V K
⚠	C2524	QFP32JJ-223	PP CAP.	0.022μF J
	C2525	QFZ0194-914	MPP CAP.	0.91μF 250V J
	C2526	QFZ0199-114	MPP CAP.	0.11μF 250V J
	C2527	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2528	QFZ0199-114	MPP CAP.	0.11μF 250V J
	C2529	QCB32HK-561Z	C CAP.	560pF 500V K
	C2530	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2532	QETM2CM-227	E CAP.	220μF 160V M
	C2551	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2552	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2553	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2554	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2555	QENC1HM-225Z	BP E CAP.	2.2μF 50V M
	C2556	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2557	QETN2EM-106Z	E CAP.	10μF 250V M
	C2565	QFLC2AJ-223Z	M CAP.	0.022μF 100V J
	C2581	QETN1CM-107Z	E CAP.	100μF 16V M
	C2582	QETN1EM-476Z	E CAP.	47μF 25V M
	C2583	QETN2AM-106Z	E CAP.	10μF 100V M
	C2584	QETN1AM-227Z	E CAP.	220μF 10V M
	C2585	QFZ0194-534	MPP CAP.	0.53μF 250V J
⚠	C2901	QFZ9040-473	MF CAP.	0.047μFAC275V M
⚠	C2902	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2903	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
	C2905	QEZ0199-227	E CAP.	220μF 400V M
	C2906	QCB32HK-103	C CAP.	0.01μF 500V K
	C2907	QCZ0122-391	C CAP.	390pF 2kV K
	C2908	QETN1HM-476Z	E CAP.	47μF 50V M
	C2909	QCB31HK-102Z	C CAP.	1000pF 50V K
	C2910	QCZ0122-561	C CAP.	560pF 2kV K
	C2912	QCB31HK-561Z	C CAP.	560pF 50V K
	C2921	QETN1EM-227Z	E CAP.	220μF 25V M
	C2922-23	QETN1HM-106Z	E CAP.	10μF 50V M
	C2951	QEZ0203-227	E CAP.	220μF 160V M
	C2952	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2953-54	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2955	QEHR1CM-477Z	E CAP.	470μF 16V M
	C2956	QEHQ1VM-228	E CAP.	2200μF 35V M
	C2957-58	QETM1EM-338	E CAP.	3300μF 25V M
	C2959-60	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2966	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
	C2967	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2968	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2970	QEHR1CM-227Z	E CAP.	220μF 16V M
	C2972-73	QEHR1AM-477Z	E CAP.	470μF 10V M
	C2974-75	QEZ0256-128	E CAP.	1200μF 10V M
	C2976	QETN1AM-227Z	E CAP.	220μF 10V M
	C2977	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C2978	QCZ0122-471	C CAP.	470pF 2kV K
⚠	C2991	QCZ9079-332	C CAP.	3300pFAC250V K
⚠	C2992	QCZ9079-471	C CAP.	470pFAC250V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T2501	QQR1111-001	DRIVE TRANSF.	
	T2521	QQR0706-001	PINC.TRANSF.	
⚠	T2551	QQH0054-002-I2	HVT	(SERVICE)
	T2561	QQR1096-001	DEF.TRANSF.	
⚠	T2901	CETS129-001J4	SW TRANSF.	
⚠	T2921	QQT0147-001	POWER TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L2451	QQL43AJ-332	CHOKE COIL	
	L2452	QQLZ020-801	CHOKE COIL	
	L2521	QQLZ025-180	CHOKE COIL	
	L2522	QQR0961-001	LINEARITY COIL	
	L2551	QQLZ026-540	HEATER CHOKE	
	L2561	QQL43AJ-222	CHOKE COIL	2200μH
	L2901-02	QQL401K-100Z	CHOKE COIL	
⚠	L2903	QQR1036-001	CHOKE COIL	
	L2951	QQLZ026-460	HEATER CHOKE	
	L2952-54	QQL26AK-220Z	CHOKE COIL	
	L2955	QQR0518-001	CHOKE COIL	
	L2956	QQLZ026-460	HEATER CHOKE	
	L2957	QQL26AK-220Z	CHOKE COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D2451	1SS133-T2	SI.DIODE	
	D2454	BYD33D-T3	SI.DIODE	
	D2501	1SS81-T5	SI.DIODE	
	D2502	1SS133-T2	SI.DIODE	
	D2503	MTZJ15B-T2	ZENER DIODE	
	D2521	V11CA-C1	SI.DIODE	
	D2522	FMV-3FU-F1	SI.DIODE	
	D2551-52	BYW95B-20	SI.DIODE	
	D2553	BYD33G-T3	SI.DIODE	
	D2554	MTZJ4.7A-T2	ZENER DIODE	
	D2555-56	BYD33G-T3	SI.DIODE	
	D2581	MTZJ15B-T2	ZENER DIODE	
	D2582	MTZJ7.5B-T2	ZENER DIODE	
	D2583	MTZJ7.5S-T2	ZENER DIODE	
	D2584	BYD33G-T3	SI.DIODE	
⚠	D2901	D3SB60	BRIDGE DIODE	
	D2902	BYD33M-T3	SI.DIODE	
⚠	D2903	BYD33D-T3	SI.DIODE	
	D2904	BYD33D-T3	SI.DIODE	
	D2905	1SS133-T2	SI.DIODE	
	D2907	MTZJ15B-T2	ZENER DIODE	
	D2921-24	1N4003-T2	SI.DIODE	
	D2925	MTZJ10B-T2	ZENER DIODE	
	D2951	RU4B-F1	SI.DIODE	
	D2953	FMX-G12S	SI.DIODE	
	D2954	BYW95B-20	SI.DIODE	
	D2955	SF6L20U	SI.DIODE	
	D2956-57	FMX-G12S	SI.DIODE	
	D2958	BYD33M-T3	SI.DIODE	
	D2959	RK44-LFT4	SI.DIODE	
	D2960	MTZJ33B-T2	ZENER DIODE	
	D2961-62	1SS133-T2	SI.DIODE	
	D2964-66	1SS133-T2	SI.DIODE	
	D2981-82	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q2452	2SK2459N-F54	F.E.T.	
	Q2501	BSN304-T	F.E.T.	
	Q2502	2SC1815/YG/-T	SI.TRANSISTOR	
⚠	Q2521	2SC5552-RL	SI.TRANSISTOR	H.OUT
	Q2581	2SA949/Y/Z1-T	SI.TRANSISTOR	
	Q2582	DTC144ESA-T	DIGI.TRANSISTOR	
	Q2583	2SC1815/YG/-T	SI.TRANSISTOR	
	Q2921	2SC2655/Y/-T	SI.TRANSISTOR	
	Q2981-82	2SC1815/YG/-T	SI.TRANSISTOR	

⚠	Symbol No.	Part No.	Part Name	Description

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC2451	BA10393	IC	
	IC2901	STR-F6668B	I C	
	IC2951	SE140N	I.C.(HYBRID)	
	IC2952	BA12T	I.C.(MONO-ANA)	
	IC2953	SI-8050S	I.C.(HYBRID)	
	IC2954	BA033T	I.C.(MONO-ANA)	
	IC2955	UPC2409AHF	I.C.(MONO-ANA)	
	IC2956	BA08T	I C	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
⚠	CP2953	ICP-N75-Y	I.C.PROTECT	
⚠	CP2954	QMFZ034-4R0Z-J1	FUSE	4A
⚠	CP2955	QMFZ034-4R0Z-J1	FUSE	4A
	K2521	CE41832-001	LEAD CORE	
	K2523-25	CE41832-001	LEAD CORE	
	K2901-02	CE42050-001Z	CORE	
	K2951	QQR0679-001	FERRITE BEADS	
	K2952	QQR0621-002Z	BEADS CORE	
	K2953	QQR0716-001Z	LEAD CORE	
⚠	PC2901	TLP721F(D4-GR)	I.C.(PH.COUPLER)	
⚠	RY2981	QSK0086-001	RELAY	
⚠	TH2901	QAD0120-9R0	P.THERMISTOR	

CRT SOCKET PW BOARD ASS'Y (SMD-3005A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R3101	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R3102	QRE141J-153Y	C R	15kΩ 1/4W J
	R3103	QRE141J-152Y	C R	1.5kΩ 1/4W J
	R3104	QRE141J-680Y	C R	68Ω 1/4W J
	R3105	QRE141J-221Y	C R	220Ω 1/4W J
	R3107-08	QRE141J-470Y	C R	47Ω 1/4W J
⚠	R3109	QRZ9021-561	F R	560Ω 1W J
	R3110	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R3111	QRE141J-390Y	C R	39Ω 1/4W J
	R3112	QRE141J-2R7Y	C R	2.7Ω 1/4W J
	R3113-14	QRE141J-563Y	C R	56kΩ 1/4W J
	R3115	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R3116	QRE141J-2R7Y	C R	2.7Ω 1/4W J
	R3117	QRE141J-390Y	C R	39Ω 1/4W J
	R3118	QRE141J-121Y	C R	120Ω 1/4W J
	R3119	QRL029J-391	OM R	390Ω 2W J
	R3130	QRE141J-101Y	C R	100Ω 1/4W J
	R3131	QRG01GJ-101	OM R	100Ω 1W J
	R3204-06	QRE141J-152Y	C R	1.5kΩ 1/4W J
	R3207	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R3208	QRE141J-123Y	C R	12kΩ 1/4W J
	R3211	QRE141J-334Y	C R	330kΩ 1/4W J
	R3223-25	QRE141J-182Y	C R	1.8kΩ 1/4W J
	R3227	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R3228	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R3229-31	QRG01GJ-823	OM R	82kΩ 1W J
	R3232-34	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R3235-37	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K
	R3239	QRZ0107-474Z	C R	470kΩ 1/2W K
	R3241	QRZ0107-105Z	C R	1MΩ 1/2W K
	R3301-02	QRE121J-474Y	C R	470kΩ 1/2W J
	R3303-04	QRE141J-223Y	C R	22kΩ 1/4W J
	R3305	QRE141J-562Y	C R	5.6kΩ 1/4W J

⚠	Symbol No.	Part No.	Part Name	Description

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R3306	QRE141J-392Y	C R	3.9kΩ 1/4W J
	R3307	QRE141J-101Y	C R	100Ω 1/4W J
	R3308	QRE141J-471Y	C R	470Ω 1/4W J
	R3309	QRE141J-120Y	C R	12Ω 1/4W J
	R3310	QRE141J-331Y	C R	330Ω 1/4W J
	R3311-12	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R3313	QRE141J-102Y	C R	1kΩ 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C3101	QETN1HM-106Z	E CAP.	10μF 50V M
	C3103	QETN1HM-335Z	E CAP.	3.3μF 50V M
	C3104	QETN1CM-107Z	E CAP.	100μF 16V M
	C3107	QETN2CM-106Z	E CAP.	10μF 160V M
	C3108-09	QCB32HK-472Z	C CAP.	4700pF 500V K
	C3110	QETN2CM-106Z	E CAP.	10μF 160V M
	C3111-12	QETN1AM-107Z	E CAP.	100μF 10V M
	C3113	QETN1AM-337Z	E CAP.	330μF 10V M
	C3118	QENC1HM-106Z	BP E CAP.	10μF 50V M
	C3201-03	QCS31HJ-8R0Z	C CAP.	8.0pF 50V J
	C3204	QCZ0120-104Z	C CAP.	1 Ω 25V Z
	C3205	QCZ0120-104Z	C CAP.	1 Ω 25V Z
	C3206	QCZ0120-104Z	C CAP.	1 Ω 25V Z
	C3207-09	QETN1EM-476Z	E CAP.	47μF 25V M
	C3210-12	QFK62EK-104Z	MM CAP.	0.1μF 250V K
	C3213-15	QCS31HJ-181Z	C CAP.	180pF 50V J
	C3216	QETN1CM-107Z	E CAP.	100μF 16V M
	C3218	QETM2EM-336	E CAP.	33μF 250V M
	C3219	QFZ0097-223	MM CAP.	0.022μF 1250V K
	C3221	QETN2EM-106Z	E CAP.	10μF 250V M
	C3301	QETN1CM-107Z	E CAP.	100μF 16V M
	C3302	QFLC1HJ-103Z	M CAP.	0.01μF 50V J

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L3201-03	QQL01BK-4R7Z	PEAKING COIL	4.7μH
	L3301	QQL26AJ-102Z	PEAKING COIL	1000μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D3101-02	RH1S-T3	SI.DIODE	
	D3151	1SS133-T2	SI.DIODE	
	D3204-06	EU01N-T2	SI.DIODE	
	D3208-10	1SR124-400A-T2	SI.DIODE	
	D3301-03	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q3102	2SC3311A/QR/-T	SI.TRANSISTOR	
	Q3103	2SC1627A/OY/-T	SI.TRANSISTOR	
	Q3105	2SA1837	SI.TRANSISTOR	
	Q3106	2SC4793	SI.TRANSISTOR	
	Q3301	2SA1015/YG/-T	SI.TRANSISTOR	
	Q3302	2SC2655/Y/-T	SI.TRANSISTOR	
	Q3303	2SA1015/YG/-T	SI.TRANSISTOR	
	Q3304-05	2SC3311A/QR/-T	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC3201-03	TDA6111Q	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	K3101	CE41492-001Z	CHOKE COIL	
	K3103-04	CE41492-001Z	CHOKE COIL	
	K3105	QQR0621-002Z	BEADS CORE	
⚠	SK3001	CE42670-001	C.R.T.SOCKET	

AUDIO PW BOARD ASS'Y (SMD-6001A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R6101	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R6102	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R6103	QRE141J-223Y	C R	22kΩ 1/4W J
	R6104	QRE141J-681Y	C R	680Ω 1/4W J
	R6105-06	QRE141J-223Y	C R	22kΩ 1/4W J
	R6107	QRE141J-183Y	C R	18kΩ 1/4W J
	R6108	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R6109	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R6110	QRE141J-223Y	C R	22kΩ 1/4W J
	R6111	QRE141J-681Y	C R	680Ω 1/4W J
	R6112-13	QRE141J-223Y	C R	22kΩ 1/4W J
	R6114	QRE141J-183Y	C R	18kΩ 1/4W J
	R6115	QRN143J-103X	C R	10kΩ 1/4W J
	R6116	QRE141J-273Y	C R	27kΩ 1/4W J
	R6118-19	QRE141J-104Y	C R	100kΩ 1/4W J
	R6122-23	QRE141J-104Y	C R	100kΩ 1/4W J
	R6124	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R6125-26	QRE141J-223Y	C R	22kΩ 1/4W J
	CAPACITOR			
	C6101	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C6102-03	QETM1EM-228	E CAP.	2200μF 25V M
	C6104	QETN1HM-476Z	E CAP.	47μF 50V M
	C6105	QETN1HM-105Z	E CAP.	1μF 50V M
	C6106	QETN1CM-107Z	E CAP.	100μF 16V M
	C6108	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C6109-10	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C6111	QETN1HM-476Z	E CAP.	47μF 50V M
	C6112	QETN1HM-105Z	E CAP.	1μF 50V M
	C6113	QETN1CM-107Z	E CAP.	100μF 16V M
	C6115-16	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C6123-24	QEZ0206-335Z	BP E CAP.	33μF 50V M
	C6125-26	QCS31HJ-181Z	C CAP.	180pF 50V J
	C6127	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
	DIODE			
	D6101-04	MTZJ27B-T2	ZENER DIODE	
	D6105	MTZJ5.1B-T2	ZENER DIODE	
	D6107	1SS133-T2	SI.DIODE	
	D6108	MA700A-T2	SI.DIODE	
	D6110-11	1SS133-T2	SI.DIODE	
	TRANSISTOR			
	Q6101	DTC144ESA-T	DIGI.TRANSISTOR	
	Q6102	2SA1015/YG/-T	SI.TRANSISTOR	
	Q6104	2SA1015/YG/-T	SI.TRANSISTOR	
	Q6105	DTC144ESA-T	DIGI.TRANSISTOR	
	Q6106-07	DTC323TS-T	DIGI.TRANSISTOR	
	IC			
	IC6101-02	TDA2052V	I.C.(MONO-ANA)	
	OTHERS			
	K6001-02	CE41433-001Z	BEADS CORE	

FRONT CONTROL PW BOARD ASSAY (SMD-8008A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R8001-02	QRE121J-151Y	C R	150Ω 1/2W J
	R8003	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R8004	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R8005	QRE141J-561Y	C R	560Ω 1/4W J
	R8007	QRE141J-103Y	C R	10kΩ 1/4W J
	R8008	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R8009	QRE141J-105Y	C R	1MΩ 1/4W J
	R8010	QRE141J-183Y	C R	18kΩ 1/4W J
	R8011	QRE141J-123Y	C R	12kΩ 1/4W J
	R8012	QRE141J-273Y	C R	27kΩ 1/4W J
	R8013	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R8014	QRE141J-123Y	C R	12kΩ 1/4W J
	R8020	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R8035	QRE141J-391Y	C R	390Ω 1/4W J
	R8036-38	QRE141J-561Y	C R	560Ω 1/4W J
	R8039	QRE141J-821Y	C R	820Ω 1/4W J
	CAPACITOR			
	C8001-02	QCB31HK-103Z	C CAP.	0.01μF 50V K
	C8003	QETN1HM-106Z	E CAP.	10μF 50V M
	C8004	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8005	QETN1EM-476Z	E CAP.	47μF 25V M
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K
	C8019	QETN1CM-107Z	E CAP.	100μF 16V M
	C8021	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8022	QETN1EM-476Z	E CAP.	47μF 25V M
	C8023	QCZ0120-104Z	C CAP.	0.1μF 25V Z
⚠	C8901	QFZ9040-474	MF CAP.	0.47μFAC275V M
	COIL			
	L8001	QQR0716-001Z	LEAD CORE	
	L8002-03	QQL211K-5R6Y	PEAKING COIL	5.6μH
	L8010-11	QQL211K-270Y	PEAKING COIL	27μH
	L8012	QQR0716-001Z	LEAD CORE	
	DIODE			
	D8007	P1241-04	C.D.S.	
	D8008	1SS133-T2	SI.DIODE	
	D8009	SLR-342MG-T16	L.E.D.(GRN)	
	D8010	SPR-39MVWF	L.E.D.	
	D8011	1SS133-T2	SI.DIODE	
	D8012	SLR-342DU-T16	L.E.D.(ORG)	
	D8013	SLR-342YY-T16	L.E.D.(YLW)	
	D8014	MTZJ6.8A-T2	ZENER DIODE	
	D8018	MTZJ5.1B-T2	ZENER DIODE	
	TRANSISTOR			
	Q8001	2SA1015/YG/-T	SI.TRANSISTOR	
	Q8002	DTC144ESA-T	DIGI.TRANSISTOR	
	Q8003-04	DTA144ESA-T	DIGI.TRANSISTOR	
	Q8005-07	DTC144ESA-T	DIGI.TRANSISTOR	
	IC			
	IC8001	GP1U281Q	IFR DETECT UNIT	
	OTHERS			
		CEMG002-001Z	FUSE CLIP	
		LC30596-001B-C	L.E.D.HOLDER	
		CM35921-005-H	CDS HOLDER	
	CN8002	QGF1220C2-25	FFC/FPC CONNECTO	
⚠	F8901	QMF51D2-3R15J1	FUSE	3.15A
	J8001	QNS0155-001	JACK	

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	J8003	QND0073-001	S JACK	
	J8004	CEMN011-001	JACK	
	J8005	CEMN011-002	JACK	
	J8006	CEMN011-003	JACK	
⚠	LF8901	QQR1095-001	LINE FILTER	
⚠	LF8902	QQR1095-001	LINE FILTER	
	S8001	QSW0619-003Z	PUSH SWITCH	MENU
	S8002	QSW0619-003Z	PUSH SWITCH	CH DOWN
	S8003	QSW0619-003Z	PUSH SWITCH	CH UP
⚠	S8901	QSW0824-001	PUSH SWITCH	MAIN POWER

DOLBY PW BOARD ASS'Y (SM0D001A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0101	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0102	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0103	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0104	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0105	NRSA02J-105X	MG R	1MΩ 1/10W J
	R0106-09	NRSA02J-271X	MG R	270Ω 1/10W J
	R0111	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0112	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0113	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0115	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0201	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0203	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0204	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0205	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0207	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0208	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0209	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0211	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0212	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0214-15	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0216	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0217	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0219	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0221	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0222	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0223	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0225	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0227	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0228	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0229	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0231	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0232-33	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0301	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0401	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0402-03	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0404	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0431	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0432-33	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0434	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0451	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0452	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0453	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0454	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0455	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0456-57	NRSA02J-473X	MG R	47kΩ 1/10W J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0458	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0459	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0460	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0461	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0462	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0463	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0464	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0465	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0466	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0467	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0468-69	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0470	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0471	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0472	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0473	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0474	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0475	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0476	NRSA02J-101X	MG R	100Ω 1/10W J
	R0477	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0478	NRSA02J-101X	MG R	100Ω 1/10W J
	R0479	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0480	NRSA02J-101X	MG R	100Ω 1/10W J
	R0481-82	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0483	NRSA02J-183X	MG R	18kΩ 1/10W J
	R0484	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0485-86	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0491	NRSA02J-101X	MG R	100Ω 1/10W J
	R0492	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0501	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0502	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0503	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0504	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0505	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0506	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0507	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0508	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0509	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0510-11	NRSA02J-681X	MG R	680Ω 1/10W J
	R0512-13	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0514	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0516	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0517	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0518	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0519	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	CAPACITOR			
	C0101	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0103	NDC21HJ-221X	C CAP.	220pF 50V J
	C0104	NEH71HM-475X	E CAP.	4.7μF 50V M
	C0105	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0106-08	NEH71CM-476X	E CAP.	47μF 16V M
	C0109	NEH71HM-475X	E CAP.	4.7μF 50V M
	C0110	NDC21HJ-221X	C CAP.	220pF 50V J
	C0111-12	NDC21HJ-100X	C CAP.	10pF 50V J
	C0114-15	NEH71CM-476X	E CAP.	47μF 16V M
	C0116	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0117-19	NEH71CM-476X	E CAP.	47μF 16V M
	C0120	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0121-22	NEH71CM-476X	E CAP.	47μF 16V M
	C0123	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0124-27	NDC21HJ-221X	C CAP.	220pF 50V J
	C0128	NEH71CM-476X	E CAP.	47μF 16V M
	C0129-33	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0134	NEHE1CM-227X	E CAP.	220μF 16V M
	C0135	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0137	NEHE1EM-107X	E CAP.	100μF 25V M
	C0138	NEH71CM-476X	E CAP.	47μF 16V M
	C0139	NEHE1CM-227X	E CAP.	220μF 16V M
	C0142	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0144-45	NCF21EZ-104X	C CAP.	0.1μF 25V Z

⚠	Symbol No.	Part No.	Part Name	Description

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0146	NEHE1EM-107X	E CAP.	100μF 25V M
	C0147	NCB21HK-102X	C CAP.	1000pF 50V K
	C0148-49	NCB21HK-222X	C CAP.	2200pF 50V K
	C0150	NEH71CM-106X	E CAP.	10μF 16V M
	C0201-02	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0203	NEHE1EM-107X	E CAP.	100μF 25V M
	C0204-05	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0208	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0209	NDC21HJ-470X	C CAP.	47pF 50V J
	C0212	NDC21HJ-470X	C CAP.	47pF 50V J
	C0213	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0214	NEHE1EM-107X	E CAP.	100μF 25V M
	C0217	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0218	NDC21HJ-470X	C CAP.	47pF 50V J
	C0219	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0220	NDC21HJ-470X	C CAP.	47pF 50V J
	C0223-25	NEH71CM-476X	E CAP.	47μF 16V M
	C0226-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0301	NEH71CM-476X	E CAP.	47μF 16V M
	C0401	NEH71EM-226X	E CAP.	22μF 25V M
	C0402	NEH71CM-476X	E CAP.	47μF 16V M
	C0403-04	NCB21HK-272X	C CAP.	2700pF 50V K
	C0405-06	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0407-10	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0431	NEH71EM-226X	E CAP.	22μF 25V M
	C0432	NEHE1CM-227X	E CAP.	220μF 16V M
	C0433-34	NCB21HK-272X	C CAP.	2700pF 50V K
	C0435	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0436-39	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0440	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0451	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0452	NDC21HJ-100X	C CAP.	10pF 50V J
	C0453	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0454	NCB21EK-563X	C CAP.	0.056μF 25V K
	C0456	NEHE1EM-107X	E CAP.	100μF 25V M
	C0457	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0458	NCB21EK-563X	C CAP.	0.056μF 25V K
	C0459	NEHE1EM-107X	E CAP.	100μF 25V M
	C0460	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0461	NDC21HJ-100X	C CAP.	10pF 50V J
	C0462	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0465-67	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0468	NEH71CM-476X	E CAP.	47μF 16V M
	C0471-72	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0473	NCB21HK-821X	C CAP.	820pF 50V K
	C0474	NDC21HJ-470X	C CAP.	47pF 50V J
	C0475	NEH71CM-476X	E CAP.	47μF 16V M
	C0476	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0479-80	NDC21HJ-820X	C CAP.	82pF 50V J
	C0501-02	NCF21CZ-105X	C CAP.	1μF 16V Z
	C0503-04	NDC21HJ-100X	C CAP.	10pF 50V J
	C0505	NEH71CM-476X	E CAP.	47μF 16V M
	C0506-07	NEH71HM-106X	E CAP.	10μF 50V M
	C0508	NEH71CM-476X	E CAP.	47μF 16V M
	C0701-02	NCB21HK-222X	C CAP.	2200pF 50V K

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0102-05	NQL02BJ-4R7X	COIL	4.7μH
	L0701-02	NQL02BJ-100X	COIL	10μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0201-02	MA3062/M/-X	ZENER DIODE	
	D0451	MA111-X	SI.DIODE	
	D0452	MA3062/M/-X	ZENER DIODE	
	D0453	MA111-X	SI.DIODE	
	D0454	MA3062/M/-X	ZENER DIODE	
	D0501-02	MA3150/M/-X	ZENER DIODE	
	D0503	MA3062/M/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0301	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0451-52	DTC323TK-X	DIGI.TRANSISTOR	
	Q0453	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0501	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0502-03	DTC323TK-X	DIGI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0101	TC9471F	I.C.(DIGI-MOS)	
	IC0102	MN1382/Q/-X	I.C.(MONO-ANA)	
	IC0201-03	BA4558F-X	I.C.(MONO-ANA)	
	IC0301	TC4052BF/N/-XE	I.C.(DIGI-MOS)	
	IC0401	TDA7315D	I.C.(DIGI-OTHER)	
	IC0431	TDA7315D	I.C.(DIGI-OTHER)	
	IC0451-53	BA4558F-X	I.C.(MONO-ANA)	
	IC0501	BA4558F-X	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	J0001	QNN0294-001	PIN JACK	
	J0002	QNB0006-002	PUSH TERMINAL	
	K0101-05	CE42681-001Y	BEADS CORE	
	LC0101-02	CE42482-103Y	EMI FILTER	
	X0101	NAX0288-001X	CRYSTAL	

IF PW BOARD ASS'Y (SMD0F003A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0020	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0021	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0022	NRSA02J-331X	MG R	330Ω 1/10W J
	R0023	NRSA02J-680X	MG R	68Ω 1/10W J
	R0024	NRSA02J-330X	MG R	33Ω 1/10W J
	R0025	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0026	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0030-31	NRSA02J-150X	MG R	15Ω 1/10W J
	R0050-51	NRSA02J-121X	MG R	120Ω 1/10W J
	R0052-53	NRSA02J-561X	MG R	560Ω 1/10W J
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0058	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0059	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0060-61	NRSA02J-471X	MG R	470Ω 1/10W J
	R0062	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0063	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0064	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0065	NRSA02J-470X	MG R	47Ω 1/10W J
	R0070-71	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0080-81	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0082	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0101	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0102	NRSA02J-471X	MG R	470Ω 1/10W J
	R0103	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0104	NRSA02J-121X	MG R	120Ω 1/10W J
	R0105	NRSA02J-151X	MG R	150Ω 1/10W J
	R0106	NRSA02J-181X	MG R	180Ω 1/10W J
	R0107	NRSA02J-221X	MG R	220Ω 1/10W J
	R0108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0109	NRSA02J-181X	MG R	180Ω 1/10W J
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J
	R0113	NRSA02J-391X	MG R	390Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0116	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0117	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0120	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0122-24	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J
	R0143	NRSA02J-750X	MG R	75Ω 1/10W J
	R0144	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0601	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0602	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0603	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0604	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0605-06	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R0607-08	NRSA02J-562X	MG R	5.6kΩ 1/10W J
⚠	R0609	QRZ9017-470	F R	47Ω 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0020-25	NCB21HK-472X	C CAP.	4700pF 50V K
	C0026	NCB21HK-472X	C CAP.	4700pF 50V K
	C0031-32	NCB21HK-472X	C CAP.	4700pF 50V K
	C0040	NCB21HK-682X	C CAP.	6800pF 50V K
	C0041	QETN1CM-107Z	E CAP.	100µF 16V M
	C0042	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0043	QETN1CM-107Z	E CAP.	100µF 16V M
	C0044	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0046	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0047	QETN1CM-227Z	E CAP.	220µF 16V M
	C0050	QETN1HM-105Z	E CAP.	1µF 50V M
	C0051	NCB21HK-472X	C CAP.	4700pF 50V K
	C0053	NDC21HJ-6R0X	C CAP.	6.0pF 50V J
	C0054	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0055	QETN1CM-107Z	E CAP.	100µF 16V M
	C0056	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0057	NDC21HJ-102X	C CAP.	1000pF 50V J
	C0058	NCB21HK-472X	C CAP.	4700pF 50V K
	C0060	NDC21HJ-120X	C CAP.	12pF 50V J
	C0061	NDC21HJ-7R0X	C CAP.	7.0pF 50V J
	C0062	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0063	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0064	NCB21HK-472X	C CAP.	4700pF 50V K
	C0065	QETN1HM-105Z	E CAP.	1µF 50V M
	C0067	NDC21HJ-120X	C CAP.	12pF 50V J
	C0069-70	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0071	QETN1HM-336Z	E CAP.	33µF 50V
	C0080-81	NCB21HK-472X	C CAP.	4700pF 50V K
	C0101	QETN1CM-476Z	E CAP.	47µF 16V M
	C0102	NDC21HJ-221X	C CAP.	220pF 50V J
	C0103-04	NDC21HJ-121X	C CAP.	120pF 50V J
	C0105	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0140	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0141	NDC21HJ-561X	C CAP.	560pF 50V J
	C0142	QETN1HM-105Z	E CAP.	1µF 50V M
	C0143	QFLC1HJ-683Z	M CAP.	0.068µF 50V J
	C0144	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0145	NCB21HK-222X	C CAP.	2200pF 50V K
	C0601	QFLC1HJ-183Z	M CAP.	0.018µF 50V J
	C0602	QETN1CM-476Z	E CAP.	47µF 16V M
	C0603	QETN1HM-106Z	E CAP.	10µF 50V M
	C0604	QETN1HM-105Z	E CAP.	1µF 50V M
	C0605	QETN1CM-477Z	E CAP.	470µF 16V M
	C0606	NCB21HK-103X	C CAP.	0.01µF 50V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T0020	QQR0626-001	I.F.TRANSF.	
	T0050	CELT001-307	C.WAVE TRANSF.	
	T0051	CELT001-306	C.WAVE TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0020	QQLZ014-R47	PEAKING COIL	0.47µH
	L0021	NQL011K-1R5X	COIL	1.5µH
	L0040	NQL024J-120X	COIL	12µH
	L0042	NQL024J-330X	COIL	33µH
	L0050-53	NQL011K-8R2X	COIL	8.2µH
	L0054	NQL024J-330X	COIL	33µH
	L0070	NQL011K-5R6X	COIL	5.6µH
	L0101	NQL011K-6R8X	COIL	6.8µH
	L0102-03	NQL011K-100X	COIL	10µH
	L0104	NQL011K-8R2X	COIL	8.2µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0021	DAN235K-X	CHIP DIODE	
	D0050-51	DAN235K-X	CHIP DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0012	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q0080	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0101	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0102	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0103	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0106	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0107	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0108	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0109-11	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0120	DTC124EKA-X	DIGI.TRANSISTOR	
	Q0122-26	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0601-02	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0010	TA8865BN	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CF0010-11	QAX0619-001	CERAMIC FILTER	
	CF0100	TPS5.5MW	CERAMIC FILTER	
	CF0140	CSB503F30-T2	CER.RESONATOR	
	SF0010	QAX0531-001	SAW FILTER	
	SF0011	QAX0621-001	SAW FILTER	
	TC0052	QAT7004-100	TRIM.CAP.	10pF 100V
	TC0059	QAT7004-100	TRIM.CAP.	10pF 100V
	W0008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0013	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0015	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0025-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0028-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0031-32	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0036	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0073-75	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0094-99	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0002	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV TERMINAL PW BOARD ASS'Y (SMD0J001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0104	QRE141J-750Y	C R	75Ω 1/4W J
	R0106	QRE141J-750Y	C R	75Ω 1/4W J
	R0108	QRE141J-750Y	C R	75Ω 1/4W J
	R0112	QRE141J-750Y	C R	75Ω 1/4W J
	R0204	QRE141J-750Y	C R	75Ω 1/4W J
	R0304	QRE141J-750Y	C R	75Ω 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0102-04	QEKC1CM-106Z	E CAP.	10µF 16V M
	C0105-08	QCB31HK-472Z	C CAP.	4700pF 50V K
	C0109	QETN1AM-108Z	E CAP.	1000µF 10V M
	C0202	QCB31HK-103Z	C CAP.	0.01µF 50V K
	C0203-06	QCB31HK-472Z	C CAP.	4700pF 50V K
	C0209	QETN1AM-108Z	E CAP.	1000µF 10V M
	C0302	QCB31HK-103Z	C CAP.	0.01µF 50V K
	C0305-06	QCB31HK-472Z	C CAP.	4700pF 50V K

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0101-04	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0105	QQR0716-001Z	LEAD CORE	
	L0201-04	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0205	QQR0716-001Z	LEAD CORE	
	L0301-02	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0303	QQR0716-001Z	LEAD CORE	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0101-05	MTZJ13B-T2	ZENER DIODE	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	J0001-03	CE40529-006	SCART CONNECTOR	

PIP PW BOARD ASS'Y (SMD0P001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0100	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0101	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0102	NRSA02J-331X	MG R	330Ω 1/10W J
	R0103	NRSA02J-680X	MG R	68Ω 1/10W J
	R0104	NRSA02J-330X	MG R	33Ω 1/10W J
	R0105-08	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0109	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0110-11	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0112	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0113	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0114	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0115	NRSA02J-750X	MG R	75Ω 1/10W J
	R0116	NRSA02J-101X	MG R	100Ω 1/10W J
	R0117	NRSA02J-391X	MG R	390Ω 1/10W J
	R0118	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0119	NRSA02J-471X	MG R	470Ω 1/10W J
	R0120	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0121	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0122	NRSA02J-121X	MG R	120Ω 1/10W J
	R0123	NRSA02J-470X	MG R	47Ω 1/10W J
	R0124	NRSA02J-121X	MG R	120Ω 1/10W J
	R0125	NRSA02J-561X	MG R	560Ω 1/10W J
	R0126-27	NRSA02J-150X	MG R	15Ω 1/10W J
	R0128	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0130	NRSA02J-561X	MG R	560Ω 1/10W J
	R0131-32	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0133	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0134	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0135	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0136	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0138-39	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0140	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0141	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0142-43	NRSA02J-471X	MG R	470Ω 1/10W J
	R0144	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0146	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0160	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0161	NRSA02J-121X	MG R	120Ω 1/10W J
	R0162	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0163	NRSA02J-151X	MG R	150Ω 1/10W J
	R0164	NRSA02J-221X	MG R	220Ω 1/10W J
	R0165	NRSA02J-181X	MG R	180Ω 1/10W J
	R0166	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0167	NRSA02J-181X	MG R	180Ω 1/10W J
	R0169	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0170	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0172	NRSA02J-471X	MG R	470Ω 1/10W J
	R0173	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0174-76	NRSA02J-561X	MG R	560Ω 1/10W J
	R0178	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R0181	NRSA02J-561X	MG R	560Ω 1/10W J
	R0182	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0183	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0185	NRSA02J-561X	MG R	560Ω 1/10W J
	R0301	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0302	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0303-04	NRSA02J-101X	MG R	100Ω 1/10W J
	R0305-07	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0601	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0602	NRSA02J-822X	MG R	8.2kΩ 1/10W J
⚠	R0603	QRZ9017-470	F R	47Ω 1/4W J
	R0604	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0605	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0606	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0607	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R0608	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0609	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0801-02	NRSA02J-820X	MG R	82Ω 1/10W J
	R0803	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0804-09	NRSA02J-101X	MG R	100Ω 1/10W J
	R0810-11	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0814-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0820-23	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0824	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0825	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0826	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0827	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0828	NRSA02J-331X	MG R	330Ω 1/10W J
	R0829	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0830	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0831	NRSA02J-150X	MG R	15Ω 1/10W J
	R0832	NRSA02J-151X	MG R	150Ω 1/10W J
	R0833	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R0834	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0835	NRSA02J-150X	MG R	15Ω 1/10W J
	R0836	NRSA02J-151X	MG R	150Ω 1/10W J
	R0837	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0838	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0839	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0840	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0841	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0842	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0843	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0844	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0845-48	NRSA02J-221X	MG R	220Ω 1/10W J
	R0849	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0850	NRSA02J-101X	MG R	100Ω 1/10W J
	R0851	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0852	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0853-54	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0855	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0856-58	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0859-62	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0867-68	NRSA02J-101X	MG R	100Ω 1/10W J
	R0869-71	NRSA02J-820X	MG R	82Ω 1/10W J
	R0872-74	NRSA02J-821X	MG R	820Ω 1/10W J
	R0875-99	NRSA02J-820X	MG R	82Ω 1/10W J
	R0900-04	NRSA02J-820X	MG R	82Ω 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NCB21HK-222X	C CAP.	2200pF 50V K
	C0002	NEH71CM-106X	E CAP.	10µF 16V M
	C0003	NEHE1CM-227X	E CAP.	2200µF 16V M
	C0004-05	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0006	QETN1HM-107Z	E CAP.	100µF 50V M
	C0007	NEHE1EM-107X	E CAP.	100µF 25V M
	C0008	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0009	NCB21HK-102X	C CAP.	1000pF 50V K
	C0100	NEHE1CM-227X	E CAP.	220µF 16V M
	C0102-07	NCB21HK-472X	C CAP.	4700pF 50V K
	C0110	NCB21HK-222X	C CAP.	2200pF 50V K
	C0111	NEH71HM-335X	E CAP.	3.3µF 50V M
	C0112	QFLB1HJ-683	M CAP.	0.068µF 50V J
	C0113	NEH71HM-105X	E CAP.	1µF 50V M
	C0114	NDC21HJ-561X	C CAP.	560pF 50V J
	C0115	NEH71HM-335X	E CAP.	3.3µF 50V M
	C0116	NEHE1EM-107X	E CAP.	100µF 25V M
	C0117	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0118	NCB21HK-682X	C CAP.	6800pF 50V K
	C0119	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0120	NEH71HM-105X	E CAP.	1µF 50V M
	C0121	NCB21HK-472X	C CAP.	4700pF 50V K
	C0123	NEHE1EM-107X	E CAP.	100µF 25V M
	C0124	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0126	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0127	NDC21HJ-7R0X	C CAP.	7.0pF 50V J
	C0128	NDC21HJ-100X	C CAP.	10pF 50V J
	C0129	QETM1CM-107	E CAP.	100µF 16V M
	C0130	NDC21HJ-102X	C CAP.	1000pF 50V J
	C0131	NEH71HM-474X	E CAP.	0.47µF 50V M
	C0132	NDC21HJ-6R0X	C CAP.	6.0pF 50V J
	C0133	NCB21HK-472X	C CAP.	4700pF 50V K
	C0134	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0135	NEH71EM-336X	E CAP.	33µF 25V M
	C0136	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0137	NCB21HK-472X	C CAP.	4700pF 50V K
	C0138	NEH71HM-474X	E CAP.	0.47µF 50V M
	C0140	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0141	NDC21HJ-120X	C CAP.	12pF 50V J
	C0142	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0143-44	NCB21HK-472X	C CAP.	4700pF 50V K
	C0145	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0148	NCB21HK-472X	C CAP.	4700pF 50V K
	C0149	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0152	NDC21HJ-121X	C CAP.	120pF 50V J
	C0154-55	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0160	NEH71CM-476X	E CAP.	47µF 16V M
	C0161	NDC21HJ-221X	C CAP.	220pF 50V J
	C0162	NCB21HK-103X	C CAP.	0.01µF 50V K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0163	NEHE1EM-107X	E CAPACITOR	100µF 25V M
	C0164-67	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0304	NCB21HK-332X	C CAP.	3300pF 50V K
	C0305	NCF21EZ-474X	C CAP.	0.47µF 25V Z
	C0306	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M
	C0307	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0308	NCB21HK-332X	C CAP.	3300pF 50V K
	C0309	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0310-11	NDC21HJ-150X	C CAP.	15pF 50V J
	C0312-16	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0317	QETN1AM-477Z	E CAP.	470µF 10V M
	C0318-20	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0321-23	NEH71CM-476X	E CAP.	47µF 16V M
	C0601	NCB21HK-183X	C CAP.	0.018µF 50V K
	C0602	QETN1CM-477Z	E CAP.	470µF 16V M
	C0603	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0604	NEH71CM-476X	E CAP.	47µF 16V M
	C0605	NEH71CM-106X	E CAP.	10µF 16V M
	C0606	NEH71HM-105X	E CAP.	1µF 50V M
	C0607	NCB21HK-223X	C CAP.	0.022µF 50V K
	C0800	NEH71CM-106X	E CAP.	10µF 16V M
	C0801	NEH71CM-476X	E CAP.	47µF 16V M
	C0802-03	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0804	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0805-08	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0809	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0813-14	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0817	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0818	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0822-26	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0829-36	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0837-38	NEH71CM-476X	E CAP.	47µF 16V M
	C0844	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0845	NEH71CM-476X	E CAP.	47µF 16V M
	C0846	NDC21HJ-270X	C CAP.	27pF 50V J
	C0850	NEH71CM-106X	E CAP.	10µF 16V M
	C0851-52	NCB21EK-104X	C CAP.	0.1µF 25V K
	C0853	NEH71CM-106X	E CAP.	10µF 16V M
	C0854-55	NCB21EK-104X	C CAP.	0.1µF 25V K
	C0856	NEH71CM-476X	E CAP.	47µF 16V M
	C0857	NEH71EM-475X	E CAP.	4.7µF 25V M
	C0858	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0859	NDC21HJ-220X	C CAP.	22pF 50V J
	C0860	NDC21HJ-680X	C CAP.	68pF 50V J
	C0861	NDC21HJ-220X	C CAP.	22pF 50V J
	C0862-64	NDC21HJ-680X	C CAP.	68pF 50V J
	C0865	NEH71CM-106X	E CAP.	10µF 16V M
	C0866-71	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0872	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0873	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0874	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0875	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M
	C0876	NDC21HJ-221X	C CAP.	220pF 50V J
	C0877	NEH71CM-106X	E CAP.	10µF 16V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T0001	QQR0626-001	I.F.TRANSF.	
	T0101	CELT001-306	C.WAVE TRANSF.	
	T0102	CELT040-301	S.I.F.TRANSF.	
	T0103	CELT001-307	C.WAVE TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0001	NQL02BJ-330X	COIL	33µH
	L0002-05	NQL024J-100X	COIL	10µH
	L0100	QQLZ014-R47	PEAKING COIL	0.47µH
	L0102	NQL011K-1R5X	COIL	1.5µH
	L0103	NQL024J-120X	COIL	12µH
	L0104-06	NQL011K-8R2X	COIL	8.2µH
	L0108	NQL011K-8R2X	COIL	8.2µH
	L0109	NQL011K-5R6X	COIL	5.6µH

⚠	Symbol No.	Part No.	Part Name	Description

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0151-52	NQL011K-100X	COIL	10μH
	L0160	NQL011K-100X	COIL	10μH
	L0165	NQL011K-4R7X	COIL	4.7μH
	L0801	NQL02BJ-4R7X	COIL	4.7μH
	L0803	NQL011K-4R7X	COIL	4.7μH
	L0804	NQL02BJ-4R7X	COIL	4.7μH
	L0805-06	NQL011K-4R7X	COIL	4.7μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0100-03	DAN235K-X	CHIP DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0100	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q0101-04	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0105	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0106-07	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0108	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0109	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0110	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0111-12	DTC323TK-X	DIGI.TRANSISTOR	
	Q0160	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0161	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0162	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0163	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0164	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0166	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0167	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0169	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0170	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0171	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0600-01	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0801-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0805	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0806-07	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0808-09	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0810	2SA1162/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0101	TA8865BN	I.C.(MONO-ANA)	
	IC0102	LA7975	I.C.(MONO-ANA)	
	IC0301	TDA9143/N3	I.C.(MONO-ANA)	
	IC0302	TDA4665/V5	I.C.(MONO-ANA)	
	IC0303	LA7016	I.C.(MONO-ANA)	
	IC0801	SAB9079HS/N1	I.C.(DIGI-MOS)	
	IC0802	MSM5416283-60-X	4M VD-RAM	
	IC0803	AN5860	I.C.(MONO-ANA)	
	IC0804	TC4066BF/N/-XE	I C	
	IC0805	CXA1875AM-X	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
		LC30835-001A-C	SHIELD COVER	
	CF0101	CSB503F30-T2	CER.RESONATOR	
	CF0102-03	FTP40.40MF	CERAMIC FILTER	
	CF0160	TPS5.5MW	CERAMIC FILTER	
	CF0162	QAX0336-001	CERAMIC FILTER	
	CF0164-65	QAX0337-001	CERAMIC FILTER	
	CF0166	CSB503E5	CER.RESONATOR	
	CF0168	QAX0338-001	CERAMIC FILTER	
	K0001-02	CE41433-001Z	BEADS CORE	
	SF0100	QAX0531-001	SAW FILTER	
	SF0101	CE42574-702	SAW FILTER	
	SF0102	QAX0574-001	SAW FILTER	
	TC0122	QAT7004-100	TRIM.CAP.	10pF 100V
	TC0139	QAT7004-100	TRIM.CAP.	10pF 100V
	TU0001	CEEK481-A04	TUNER	
	UD0001	CEGA016-001	RF SPLITTER	
	W0001	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X0301	CE40749-001Z	CRYSTAL	
	X0302	CE40668-001Z	CRYSTAL	
	Y0107	NRSA02J-224X	MG R	220kΩ 1/10W J
	Y0108-09	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

SUB MICON & AUTO PANORAMA ASS'Y (SMD0W001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0001	NRSA02J-101X	MG R	100Ω 1/10W J
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0003	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0004	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0005-07	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0008	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0009	NRSA02J-331X	MG R	330Ω 1/10W J
	R0010	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0011	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0012	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0020-26	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0045	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0051	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0054	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0060	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0751	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0752-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0758	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0759-60	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0761-66	NRSA02J-822X	MG R	8.2kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NEN51AM-336X	CHIP AL BP E CAP	33μF 10V M
	C0002	NDC21HJ-221X	C CAP.	220pF 50V J
	C0003	NDC21HJ-220X	C CAP.	22pF 50V J
	C0004-05	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0006	NEH71CM-476X	E CAP.	47μF 16V M
	C0009	NEH71CM-106X	E CAP.	10μF 16V M
	C0010-11	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0751	NEH71CM-476X	E CAP.	47μF 16V M
	C0752-57	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0758	NCB21HK-103X	C CAP.	0.01μF 50V K

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0005	MA3051/M/-X	ZENER DIODE	
	D0751	MA111-X	SI.DIODE	
	D0752-53	MA3062/M/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0001-02	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0003	2SA1037K/QR/-X	SI.TRANSISTOR	
	Q0004-05	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0751-52	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0001	JCC5035	I C	
	IC0002	MN1382/Q/-X	I.C.(MONO-ANA)	
	IC0751	SAB-C161RI-W	I.C.(DIGI-MOS)	
	IC0752	MX23C4000PC10MD	IC	
	IC0753	BR24C16F-X	I.C.(MEMORY-OTH)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
		CEMS007-032	IC SOCKET	
	X0001	CE42564-001Y	CER.RESONATOR	
	X0751	QAX0534-001	C RESONATOR	

100Hz PW BOARD ASS'Y (SMD0Z005A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0001-02	NRSA02J-101X	MG R	100Ω 1/10W J
	R0004	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0005	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0101	NRSA02J-101X	MG R	100Ω 1/10W J
	R0102	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0103	NRSA02J-331X	MG R	330Ω 1/10W J
	R0104	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0105	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0106	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0107	NRSA02J-331X	MG R	330Ω 1/10W J
	R0108	NRSA02J-181X	MG R	180Ω 1/10W J
	R0109-10	NRSA02J-101X	MG R	100Ω 1/10W J
	R0111	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0112	NRSA02J-101X	MG R	100Ω 1/10W J
	R0113	NRSA02J-471X	MG R	470Ω 1/10W J
	R0114	NRSA02J-221X	MG R	220Ω 1/10W J
	R0121	NRSA02J-101X	MG R	100Ω 1/10W J
	R0122	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0123	NRSA02J-331X	MG R	330Ω 1/10W J
	R0124	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0125	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0126	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0127	NRSA02J-271X	MG R	270Ω 1/10W J
	R0128	NRSA02J-181X	MG R	180Ω 1/10W J
	R0129	NRSA02J-101X	MG R	100Ω 1/10W J
	R0130	NRSA02J-330X	MG R	33Ω 1/10W J
	R0131	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0132	NRSA02J-101X	MG R	100Ω 1/10W J
	R0133	NRSA02J-471X	MG R	470Ω 1/10W J
	R0134	NRSA02J-221X	MG R	220Ω 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0143	NRSA02J-331X	MG R	330Ω 1/10W J
	R0144	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0145	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0146	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0147	NRSA02J-271X	MG R	270Ω 1/10W J
	R0148	NRSA02J-181X	MG R	180Ω 1/10W J
	R0149	NRSA02J-101X	MG R	100Ω 1/10W J
	R0150	NRSA02J-150X	MG R	15Ω 1/10W J
	R0151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0152	NRSA02J-101X	MG R	100Ω 1/10W J
	R0153	NRSA02J-471X	MG R	470Ω 1/10W J
	R0154	NRSA02J-221X	MG R	220Ω 1/10W J
	R0155	NRSA02J-100X	MG R	10Ω 1/10W J
	R0156	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0157	NRSA02J-560X	MG R	56Ω 1/10W J
	R0158	NRSA02J-680X	MG R	68Ω 1/10W J
	R0159	NRSA02J-101X	MG R	100Ω 1/10W J
	R0160	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0161	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0162	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0163	NRSA02J-181X	MG R	180Ω 1/10W J
	R0164	NRSA02J-680X	MG R	68Ω 1/10W J
	R0165	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0171	NRSA02J-101X	MG R	100Ω 1/10W J
	R0172	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0173	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R0174	NRSA02J-560X	MG R	56Ω 1/10W J
	R0175	NRSA02J-105X	MG R	1MΩ 1/10W J
	R0176	NRSA02J-681X	MG R	680Ω 1/10W J
	R0177	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0178	NRSA02J-101X	MG R	100Ω 1/10W J
	R0179	NRSA02J-471X	MG R	470Ω 1/10W J
	R0180	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0181-82	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0183-84	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0185	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0186	NRSA02F-332X	MG R	3.3kΩ 1/10W F
	R0187	NRSA02J-101X	MG R	100Ω 1/10W J
	R0188	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0189	NRSA02J-470X	MG R	47Ω 1/10W J
	R0190	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0191	NRSA02J-221X	MG R	220Ω 1/10W J
	R0192	NRSA02J-220X	MG R	22Ω 1/10W J
	R0193	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0201-16	NRSA02J-101X	MG R	100Ω 1/10W J
	R0221-36	NRSA02J-101X	MG R	100Ω 1/10W J
	R0303-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R0401	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0403	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0404	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0406	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0408	NRSA02J-561X	MG R	560Ω 1/10W J
	R0409	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0411	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0412	NRSA02J-561X	MG R	560Ω 1/10W J
	R0413	NRSA02J-101X	MG R	100Ω 1/10W J
	R0415	NRSA02J-151X	MG R	150Ω 1/10W J
	R0417	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0418	NRSA02J-220X	MG R	22Ω 1/10W J
	R0419	NRSA02J-101X	MG R	100Ω 1/10W J
	R0420	NRSA02J-471X	MG R	470Ω 1/10W J
	R0425	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0426	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0428	NRSA02F-5231X	MG R	5.23kΩ 1/10W F
	R0429	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0431	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0432	NRSA02J-561X	MG R	560Ω 1/10W J
	R0433	NRSA02J-101X	MG R	100Ω 1/10W J
	R0435	NRSA02J-151X	MG R	150Ω 1/10W J
	R0437	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0438	NRSA02J-220X	MG R	22Ω 1/10W J
	R0439	NRSA02J-101X	MG R	100Ω 1/10W J
	R0440	NRSA02J-471X	MG R	470Ω 1/10W J
	R0441	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0442	NRSA02F-562X	MG R	5.6kΩ 1/10W F
	R0443	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0451	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0452	NRSA02J-561X	MG R	560Ω 1/10W J
	R0453	NRSA02J-101X	MG R	100Ω 1/10W J
	R0455	NRSA02J-151X	MG R	150Ω 1/10W J
	R0457	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0458	NRSA02J-220X	MG R	22Ω 1/10W J
	R0459	NRSA02J-101X	MG R	100Ω 1/10W J
	R0460	NRSA02J-471X	MG R	470Ω 1/10W J
	R0461	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0462	NRSA02F-5231X	MG R	5.23kΩ 1/10W F
	R0463	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0471	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0472	NRSA02J-391X	MG R	390Ω 1/10W J
	R0473	NRSA02J-101X	MG R	100Ω 1/10W J
	R0475	NRSA02J-330X	MG R	33Ω 1/10W J
	R0476	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0477	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0478	NRSA02J-220X	MG R	22Ω 1/10W J
	R0479	NRSA02J-101X	MG R	100Ω 1/10W J
	R0480	NRSA02J-221X	MG R	220Ω 1/10W J
	R0486	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0487	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0488	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0489	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0491-92	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0501	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0504	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0505	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0506	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0507	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0512	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0514-15	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0516	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0602-03	NRSA02J-680X	MG R	68Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0604	QRN143J-221X	C R	220Ω 1/4W J
	R0606	NRSA02J-680X	MG R	68Ω 1/10W J
	R0607-08	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0609	NRSA02J-100X	MG R	10Ω 1/10W J
	R0610	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0611	NRSA02J-100X	MG R	10Ω 1/10W J
	R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J
	R0614	NRSA02J-100X	MG R	10Ω 1/10W J
	R0615	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0616	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0704	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0705-06	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0708	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0709	NRVA02D-103X	MF R	10kΩ 1/10W D
	R0714	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0715	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0716	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0717	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0718	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0719	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0720	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0721	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0723	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0724	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0726	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0727	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0731	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0733	NRSA02J-154X	MG R	150kΩ 1/10W J
	R0734	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0736	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0737	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0738	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0739	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0740	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0741	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0742	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0743	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0744	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0745	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0746	NRSA02J-683X	MG R	68kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NEH71CM-476X	E CAP.	47µF 16V M
	C0002	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0003	NEH71CM-476X	E CAP.	47µF 16V M
	C0004	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0005	NEH71CM-476X	E CAP.	47µF 16V M
	C0006	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0007	NEH71CM-476X	E CAP.	47µF 16V M
	C0008	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0009	NDC21HJ-121X	C CAP.	120pF 50V J
	C0011	NDC21HJ-270X	C CAP.	27pF 50V J
	C0102	NDC21HJ-121X	C CAP.	120pF 50V J
	C0103	NDC21HJ-680X	C CAP.	68pF 50V J
	C0104	NEN51EM-106X	CHIP AL BP E CAP	10µF 25V M
	C0105	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C0106	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0107	NDC21HJ-390X	C CAP.	39pF 50V J
	C0108	NEH71CM-476X	E CAP.	47µF 16V M
	C0109	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M
	C0110	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0111	NDC21HJ-181X	C CAP.	180pF 50V J
	C0112-14	NEH71CM-106X	E CAP.	10µF 16V M
	C0122	NDC21HJ-121X	C CAP.	120pF 50V J
	C0123	NDC21HJ-680X	C CAP.	68pF 50V J
	C0124	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M
	C0125	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C0126	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0142	NDC21HJ-121X	C CAP.	120pF 50V J
	C0143	NDC21HJ-680X	C CAP.	68pF 50V J
	C0144	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V M
	C0145	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C0146	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0151	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0152	QETN0JM-228Z	E CAP.	2200µF 6.3V M
	C0153	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0154-55	NEH71HM-105X	E CAP.	1µF 50V M
	C0156-57	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0161-62	NEH71CM-106X	E CAP.	10µF 16V M
	C0163	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0164	NEH71CM-106X	E CAP.	10µF 16V M
	C0165-80	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0181-82	NDC21HJ-8R0X	C CAP.	8.0pF 50V J
	C0191	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0192	NEH71CM-106X	E CAP.	10µF 16V M
	C0193	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0194	NRSA02J-223X	MG R	22kΩ 1/10W J
	C0201-02	QETN0JM-477Z	E CAP.	470µF 6.3V M
	C0203-07	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0208-09	NDC21HJ-150X	C CAP.	15pF 50V J
	C0301-19	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0401	NEH71CM-106X	E CAP.	10µF 16V M
	C0402	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0403	NEH71CM-106X	E CAP.	10µF 16V M
	C0404	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0405-06	NDC21HJ-120X	C CAP.	12pF 50V J
	C0408-13	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0414	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0415	NEH71HM-105X	E CAP.	1µF 50V M
	C0416	NEH71CM-106X	E CAP.	10µF 16V M
	C0417	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0420	NEH71HM-105X	E CAP.	1µF 50V M
	C0422	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0424	NEH71HM-105X	E CAP.	1µF 50V M
	C0425	NEH71CM-476X	E CAP.	47µF 16V M
	C0426	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0432	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0434	NEH71HM-105X	E CAP.	1µF 50V M
	C0435	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0452	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0454	NEH71HM-105X	E CAP.	1µF 50V M
	C0455	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0472	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0474	NEH71HM-105X	E CAP.	1µF 50V M
	C0475-76	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0477	NDC21HJ-561X	C CAP.	560pF 50V J
	C0501	NCB21HK-333X	C CAP.	0.033µF 50V K
	C0504	NCB21HK-562X	C CAP.	5600pF 50V K
	C0505-06	NCB21HK-393X	C CAP.	0.039µF 50V K
	C0601	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0602	NEH71CM-476X	E CAP.	47µF 16V M
	C0603	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0605	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0606	NDC21HJ-681X	C CAP.	680pF 50V J
	C0701	NCB21HK-102X	C CAP.	1000pF 50V K
	C0706	NCB21EK-154X	C CAP.	0.15µF 25V K
	C0707	NCB21EK-104X	C CAP.	0.1µF 25V K
	C0708	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0709	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0710	NEH71CM-106X	E CAP.	10µF 16V M
	C0711	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C0712	NEH71CM-106X	E CAP.	10µF 16V M
	C0713	NCB21HK-223X	C CAP.	0.022µF 50V K

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0001-05	NQL02BJ-4R7X	COIL	4.7µH
	L0101	NQL011K-3R3X	COIL	3.3µH
	L0121	NQL011K-3R3X	COIL	3.3µH
	L0141	NQL011K-3R3X	COIL	3.3µH
	L0161	NQL02BJ-100X	COIL	10µH
	L0162	NQL02BJ-3R3X	COIL	3.3µH
	L0163-64	NQL02BJ-100X	COIL	10µH

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0201-02	NQL02BJ-100X	COIL	10µH
	L0301-02	NQL02BJ-4R7X	COIL	4.7µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0001	MA152WK-X	SI.DIODE	
	D0101-02	MA3068/M/-X	ZENER DIODE	
	D0103	MA3043-X	ZENER DIODE	
	D0104-05	MA111-X	SI.DIODE	
	D0106	MA3068/M/-X	ZENER DIODE	
	D0107	MA111-X	SI.DIODE	
	D0401	MA111-X	SI.DIODE	
	D0403-10	MA3068/M/-X	ZENER DIODE	
	D0411-13	MA111-X	SI.DIODE	
	D0414	MA3068/M/-X	ZENER DIODE	
	D0701	MA111-X	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0101	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0102	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0103	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0105	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0106-07	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0108	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0111	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0121	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0122	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0123	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0124	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0141	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0142	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0143	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0144	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0151-52	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0153	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0154	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0155	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0402	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0403-05	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0411	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0412-15	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0431	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0432-35	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0451	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0452-55	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0471	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0472-74	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0501	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0601	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0702	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0101	SDA9206	I C	
	IC0102	TC4W66F-X	I.C.(DIGI-MOS)	
	IC0201	SDA9400	I C	
	IC0301	JCC5043	I.C(DIGI-MOS)	
	IC0401	DDP3310B/E4-W	I.C(M)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	IC0601	SN74LV04ANS-X	I.C(DIGI-MOS)	
	IC0602	TC74AC00F-X	I.C(DIGI-MOS)	
	IC0603	MN1382/Q/-X	I.C(MONO-ANA)	
	IC0701-02	NJM4556AM-XE	I.C(MONO-ANA)	
	LC0001-04	CE42482-103Y	EMI FILTER	
	LC0101-03	CE42482-470Y	EMI FILTER	
	LC0104	CE42126-101Y	EMI FILTER	
	LC0201	CE42482-103Y	EMI FILTER	
	LC0401-11	CE42126-220Y	FILTER	
	LC0601	CE42126-101Y	FILTER	
	LC0602	CE42482-470Y	EMI FILTER	
	LC0603	CE42126-101Y	FILTER	
	X0101	QAX0549-001Z	X TAL	
	X0201	QAX0359-001Z	CRYSTAL	
	X0401	QAX0548-001Z	CRYSTAL	
	Y0001-14	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0017-28	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV-32WFP1EK(A)

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1904A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J
	R1204	QRK126J-151X	C R	150Ω 1/2W J
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J
	R1206	QRG01GJ-101	OM R	100Ω 1W J
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1228	NRSA02J-560X	MG R	56Ω 1/10W J
	R1229	QRK126J-181X	C R	180Ω 1/2W J
	R1231	QRG01GJ-101	OM R	100Ω 1W J
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1292	NRSA02J-271X	MG R	270Ω 1/10W J
	R1301	NRSA02J-101X	MG R	100Ω 1/10W J
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J
	R1303	NRSA02J-101X	MG R	100Ω 1/10W J
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J
	R1307	NRSA02J-101X	MG R	100Ω 1/10W J
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J
	R1309	NRSA02J-101X	MG R	100Ω 1/10W J
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J
	R1313	NRSA02J-101X	MG R	100Ω 1/10W J
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1316	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R1319	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J
	R1321	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1331	NRSA02J-101X	MG R	100Ω 1/10W J
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1348	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1382	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R1383	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J
	R1405	QRL029J-221	OM R	220Ω 2W J
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
	R1611	NRSA02J-331X	MG R	330Ω 1/10W J
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1617-18	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1619-20	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1658-60	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J
	R1662-64	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1667	NRSA02J-104X	MG R	100kΩ 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1672	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R1673	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1674	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1675	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1676	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1677	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1678	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1679	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1680	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1689-90	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1691-92	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1693-94	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1700	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1701	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1702	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1703-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1707	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1737	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J
	R1740-42	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1748	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1782	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1784-86	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1787	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1788	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1789	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1792	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1795	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1796	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J
	R1897	QRG029J-220	OM R	22 Ω 2W J
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1001	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1002	QETN1HM-107Z	E CAP.	100μF 50V M
	C1003	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1004	QETN1CM-107Z	E CAP.	100μF 16V M
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K
	C1008	QETN1HM-106Z	E CAP.	10μF 50V M
	C1101-02	QETN1CM-107Z	E CAP.	100μF 16V M
	C1104	QETN1EM-476Z	E CAP.	47μF 25V M
	C1105	QENC1HM-474Z	BP E CAP.	0.47μF 50V M
	C1106	QETN1HM-106Z	E CAP.	10μF 50V M
	C1107	QETN1AM-227Z	E CAP.	220μF 10V M
	C1121-22	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1123	QETN1EM-476Z	E CAP.	47μF 25V M
	C1124-25	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1128	QETN1CM-107Z	E CAP.	100μF 16V M
	C1129	QETN1EM-476Z	E CAP.	47μF 25V M
	C1130	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1131	QETN1EM-476Z	E CAP.	47μF 25V M
	C1132	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1134	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J
	C1136-39	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1140	QETN1EM-476Z	E CAP.	47μF 25V M
	C1141	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1151	QETN1AM-227Z	E CAP.	220μF 10V M
	C1152	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1153	QETN1AM-107Z	E CAP.	100μF 10V M
	C1154	NDC21HJ-121X	C CAP.	120pF 50V J
	C1155	QETN1EM-476Z	E CAP.	47μF 25V M
	C1161	QETN1EM-476Z	E CAP.	47μF 25V M
	C1163	QETN1EM-476Z	E CAP.	47μF 25V M
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J
	C1192	QETN1CM-227Z	E CAP.	220μF 16V M
	C1193	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1201	QETN1CM-227Z	E CAP.	220μF 16V M
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K
	C1203-04	QETN1HM-105Z	E CAP.	1μF 50V M
	C1205-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1207	QETN1CM-227Z	E CAP.	220μF 16V M
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K
	C1212-13	QETN1HM-105Z	E CAP.	1μF 50V M
	C1214-15	QETN1HM-106Z	E CAP.	10μF 50V M
	C1216-17	QETN1HM-105Z	E CAP.	1μF 50V M
	C1218-19	QETN1EM-476Z	E CAP.	47μF 25V M
	C1220	QETN1HM-105Z	E CAP.	1μF 50V M
	C1221-22	QETN1CM-107Z	E CAP.	100μF 16V M
	C1223-24	QETN1HM-105Z	E CAP.	1μF 50V M
	C1231-33	QETN1EM-476Z	E CAP.	47μF 25V M
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K
	C1301	QETN1CM-227Z	E CAP.	220μF 16V M
	C1302	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1303	QETN1EM-476Z	E CAP.	47μF 25V M
	C1304	QENC1CM-476Z	BP E CAP.	47μF 16V M
	C1305	QETN1HM-226Z	E CAP.	22μF 50V M
	C1306	NCB21HK-223X	C CAP.	0.022μF 50V K
	C1307-08	QENC1HM-105Z	BP E CAP.	1μF 50V M
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K
	C1315	NCB21CK-474X	C CAP.	0.47μF 16V K
	C1316	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1317	NCB21EK-154X	C CAP.	0.15μF 25V K
	C1318	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K
	C1320	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J
	C1323	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1327	QETN1CM-227Z	E CAP.	220μF 16V M
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J
	C1363-65	QETN1HM-106Z	E CAP.	10μF 50V M
	C1381-84	QETN1EM-476Z	E CAP.	47μF 25V M
	C1387-88	QETN1EM-476Z	E CAP.	47μF 25V M
	C1389-90	QETN0JM-228Z	E CAP.	2200μF 6.3V M
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1403	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1404	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J
	C1406	QETM1VM-108	E CAP.	1000μF 35V M
	C1408	QETN1VM-337Z	E CAP.	330μF 35V M
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47μF 50V J
	C1412	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1417-18	QETN1CM-108Z	E CAP.	1000μF 16V M
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K
	C1461	QETN1HM-226Z	E CAP.	22μF 50V M
	C1551-52	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1553	QETN1EM-476Z	E CAP.	47μF 25V M
	C1554-55	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J
	C1603-04	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1605-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1607-08	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1609-12	QETN1HM-105Z	E CAP.	1μF 50V M
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J
	C1615	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1616-18	QETN1HM-106Z	E CAP.	10μF 50V M
	C1619	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1620	QETN1HM-106Z	E CAP.	10μF 50V M
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K
	C1629	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1630	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1631	QETN1CM-107Z	E CAP.	100μF 16V M
	C1632	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J
	C1651-53	QETN1HM-105Z	E CAP.	1μF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1654	QETN1HM-107Z	E CAP.	100µF 50V M
	C1655	QETN1HM-106Z	E CAP.	10µF 50V M
	C1656-57	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1658	QETM1HM-228	E CAP.	2200µF 50V M
	C1659-62	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1663-65	QETM1VM-108	E CAP.	1000µF 35V M
	C1667	QETN1CM-227Z	E CAP.	220µF 16V M
	C1668-69	QETN1HM-105Z	E CAP.	1µF 50V M
	C1670	QETN1HM-106Z	E CAP.	10µF 50V M
	C1671	QETN1EM-476Z	E CAP.	47µF 25V M
	C1672	NDC21HJ-100X	C CAP.	10pF 50V J
	C1673	QETN1HM-105Z	E CAP.	1µF 50V M
	C1674	NDC21HJ-100X	C CAP.	10pF 50V J
	C1675	QETN1HM-105Z	E CAP.	1µF 50V M
	C1679	QETN1HM-106Z	E CAP.	10µF 50V M
	C1680-81	NDC21HJ-221X	C CAP.	220pF 50V J
	C1682	QETN1CM-227Z	E CAP.	220µF 16V M
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K
	C1703	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1704	QETN1AM-107Z	E CAP.	100µF 10V M
	C1705-06	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
	C1707	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1708	NCB21HK-333X	C CAP.	0.033µF 50V K
	C1709	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1710	QETN1EM-476Z	E CAP.	47µF 25V M
	C1711	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1712	NCB21HK-333X	C CAP.	0.033µF 50V K
	C1713	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1714	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1715	QETN1EM-476Z	E CAP.	47µF 25V M
	C1717	QETN1HM-106Z	E CAP.	10µF 50V M
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J
	C1719	NCF21CZ-105X	C CAP.	1µF 16V Z
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J
	C1758	QETN1AM-227Z	E CAP.	220µF 10V M
	C1759	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J
	C1762	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1763	QETN1EM-476Z	E CAP.	47µF 25V M
	C1764	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1769-71	QETN1HM-106Z	E CAP.	10µF 50V M
	C1772	QETN1EM-476Z	E CAP.	47µF 25V M
	C1773	QETN1CM-107Z	E CAP.	100µF 16V M
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J
	C1780	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J
	C1784	QETN1CM-227Z	E CAP.	220µF 16V M
	C1785	NCB21HK-102X	C CAP.	1000pF 50V K
	C1901	QETN1CM-107Z	E CAP.	100µF 16V M
	C1902	QETN1HM-106Z	E CAP.	10µF 50V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T1101	CE42697-001	LOWPASS FILTER	
	T1111	CE42697-001	LOWPASS FILTER	
	T1121	CE42697-001	LOWPASS FILTER	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1001-02	QQL01BK-8R2Z	PEAKING COIL	8.2µH
	L1004	QQL01BK-5R6Z	PEAKING COIL	5.6µH
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1102-05	QQL03BJ-220Z	PEAKING COIL	22µH
	L1111	QQL03BJ-220Z	PEAKING COIL	22µH
	L1121	QQL03BJ-330Z	PEAKING COIL	33µH
	L1302	NQL024J-5R6X	COIL	5.6µH
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1604	QQL01BJ-180Z	PEAKING COIL	18µH
	L1605	QQL01BJ-220Z	PEAKING COIL	22µH
	L1701	QQL01BK-4R7Z	PEAKING COIL	4.7µH
	L1702	QQL01BK-3R9Z	PEAKING COIL	3.9µH
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1753	QQL01BK-4R7Z	PEAKING COIL	4.7µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1201-11	MA3130/H/-X	ZENER DIODE	
	D1214-15	MA3130/H/-X	ZENER DIODE	
	D1402	BYD33D-T3	SI.DIODE	
	D1403-04	MA3330/L/-X	ZENER DIODE	
	D1461	MA111-X	SI.DIODE	
	D1462	MA3220/M/-X	ZENER DIODE	
	D1502	MA111-X	SI.DIODE	
	D1504	MA111-X	SI.DIODE	
	D1653-55	MA3330/L/-X	ZENER DIODE	
	D1658	MA153A-X	SI.DIODE	
	D1660	MA111-X	SI.DIODE	
	D1661	MA153A-X	SI.DIODE	
	D1664-65	MA111-X	SI.DIODE	
	D1666	MA3062/M/-X	ZENER DIODE	
	D1667-68	MA3150/M/-X	ZENER DIODE	
	D1701-02	MA111-X	SI.DIODE	
	D1704	1SS244-T2	SI.DIODE	
	D1708	MA111-X	SI.DIODE	
	D1709	MA3068/M/-X	ZENER DIODE	
	D1712	MA111-X	SI.DIODE	
	D1751-53	MA111-X	SI.DIODE	
	D1754	MA3062/M/-X	ZENER DIODE	
	D1771-74	MA3056/M/-X	ZENER DIODE	
	D1901	MA3130/H/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR	
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR	
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR	
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR	
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1301	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1654-56	DTC323TK-X	DIGI.TRANSISTOR	
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1658-60	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1753	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR	

⚠	Symbol No.	Part No.	Part Name	Description
	IC			
	IC1101	TC9090AN	I.C.(DIGI-MOS)	
	IC1301	CXA1545AS	I.C.(MONO-ANA)	
	IC1302	LA7222	I.C.(MONO-ANA)	
	IC1303	TDA9143/N3	I.C.(MONO-ANA)	
	IC1304	TDA4665/V5	I.C.(MONO-ANA)	
	IC1305	LA7016	I.C.(MONO-ANA)	
	IC1401	LA7841	I.C.(MONO-ANA)	
	IC1551	LA6515	I.C.(MONO-ANA)	
	IC1601	MSP3410D-PP-C5	I.C.(DIGI-OTHER)	
	IC1651	TA8256BH	I.C.(HYBRID)	
	IC1652	BA4558F-X	I.C.(MONO-ANA)	
	IC1701	M37280MK-120SP	I.C(MICRO-COMP)	
	IC1702	L78LR05E-MA	I.C.(MONO-ANA)	
	IC1703	AT24C1632WFP1	I.C.	(SERVICE)
	IC1754	SDA5275S	I.C.(MICRO-PROC)	
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)	
	IC1756	TC4053BP/N/	I.C.(DIGI-MOS)	
	OTHERS			
	CN1002	QGF1220C2-25	FFC/FPC CONNECTO	
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1101	QQR0621-002Z	BEADS CORE	
	K1401	QQR0621-002Z	BEADS CORE	
	K1701	QQR0621-002Z	BEADS CORE	
	LC1101	TA78L005AP-T	I.C.(H)	
	LC1601	CE42142-103Z	EMI FILTER	
	TU1001	QAU0132-001	TUNER	
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X1311	CE40749-001Z	CRYSTAL	
	X1312	CE40668-001Z	CRYSTAL	
	X1601	CE42546-001Z	CRYSTAL	
	X1701	CST8.00MTW	CER.RESONATOR	
	X1752	QAX0351-001Z	CRYSTAL	
	Y1306	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1314	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	Y1315-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1651-52	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1654	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1659-60	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1750-51	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

POWER / DEF PW BOARD ASS'Y (SMD-2008A-U2)

Refer to PARTS LIST in page 14 for this P.W. board.

CRT SOCKET PW BOARD ASS'Y (SMD-3005A-U2)

Refer to PARTS LIST in page 16 for this P.W. board.

AUDIO PW BOARD ASS'Y (SMD-6001A-U2)

Refer to PARTS LIST in page 17 for this P.W. board.

FRONT CONTROL PW BOARD ASSAY (SMD-8008A-U2)

Refer to PARTS LIST in page 17 for this P.W. board.

DOLBY PW BOARD ASSAY (SMD0D001A-U2)

Refer to PARTS LIST in page 18 for this P.W. board.

IF PW BOARD ASSAY (SMD0F903A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0020	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0021	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0022	NRSA02J-331X	MG R	330Ω 1/10W J
	R0023	NRSA02J-680X	MG R	68Ω 1/10W J
	R0024	NRSA02J-330X	MG R	33Ω 1/10W J
	R0030-31	NRSA02J-150X	MG R	15Ω 1/10W J
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0058-59	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0063	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0064	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0065	NRSA02J-470X	MG R	47Ω 1/10W J
	R0070-71	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0080-81	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0082	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0101	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0102	NRSA02J-471X	MG R	470Ω 1/10W J
	R0108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0109	NRSA02J-121X	MG R	120Ω 1/10W J
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J
	R0113	NRSA02J-271X	MG R	270Ω 1/10W J
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0116	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J
	R0143	NRSA02J-750X	MG R	75Ω 1/10W J
	R0144	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J
	CAPACITOR			
	C0020-23	NCB21HK-472X	C CAP.	4700pF 50V K
	C0030	NCB21HK-472X	C CAP.	4700pF 50V K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0020-23	NCB21HK-472X	C CAP.	4700pF 50V K
	C0030	NCB21HK-472X	C CAP.	4700pF 50V K
	C0040	NCB21HK-682X	C CAP.	6800pF 50V K
	C0041	QETN1CM-107Z	E CAP.	100µF 16V M
	C0042	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0043	QETN1CM-107Z	E CAP.	100µF 16V M
	C0044	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0045-46	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0047	QETN1CM-227Z	E CAP.	220µF 16V M
	C0048	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0050	QETN1HM-105Z	E CAP.	1µF 50V M
	C0054	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0055	QETN1CM-107Z	E CAP.	100µF 16V M
	C0056	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0057	NDC21HJ-102X	C CAP.	1000pF 50V J
	C0058	NCB21HK-472X	C CAP.	4700pF 50V K
	C0060	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0062	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0063	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0064	NCB21HK-472X	C CAP.	4700pF 50V K
	C0065	QETN1HM-105Z	E CAP.	1µF 50V M
	C0069-70	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0071	QETN1HM-336Z	E CAP.	33µF 50V
	C0080-81	NCB21HK-472X	C CAP.	4700pF 50V K
	C0101	QETN1CM-476Z	E CAP.	47µF 16V M
	C0104	NDC21HJ-271X	C CAP.	270pF 50V J
	C0105	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0140	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0141	NDC21HJ-561X	C CAP.	560pF 50V J
	C0142	QETN1HM-105Z	E CAP.	1µF 50V M
	C0143	QFLC1HJ-683Z	M CAP.	0.068µF 50V J
	C0144	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0145	NCB21HK-222X	C CAP.	2200pF 50V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T0020	QQR0626-001	I.F.TRANSF.	
	T0050	CELT001-307	C.WAVE TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0020	QQLZ014-R47	PEAKING COIL	0.47µH
	L0021	NQL011K-1R5X	COIL	1.5µH
	L0030	NQL011K-2R2X	COIL	2.2µH
	L0040	NQL024J-120X	COIL	12µH
	L0042	NQL024J-330X	COIL	33µH
	L0054	NQL024J-330X	COIL	33µH
	L0070	NQL011K-5R6X	COIL	5.6µH
	L0103-04	NQL011K-8R2X	COIL	8.2µH

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0012	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q0080	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0101	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0107	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0010	TA8865BN	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CF0010-11	QAX0620-001	C TRAP	
	CF0100	TPSH6.0MB	CERAMIC FILTER	
	CF0140	CSB503F30-T2	CER.RESONATOR	
	SF0010	QAX0315-001	SAW FILTER	
	SF0012	QAX0618-001	SAW FILTER	
	W0008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0013	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0025	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	W0028-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0031-32	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0036	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0074	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0094-96	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0098	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0002-04	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV TERMINAL PW BOARD ASS'Y (SMD0J001A-U2)

Refer to PARTS LIST in page 21 for this P.W. board.

PIP PW BOARD ASS'Y (SMD0P901A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0100	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0101	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0102	NRSA02J-331X	MG R	330Ω 1/10W J
	R0103	NRSA02J-680X	MG R	68Ω 1/10W J
	R0104	NRSA02J-330X	MG R	33Ω 1/10W J
	R0113	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0114	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0115	NRSA02J-750X	MG R	75Ω 1/10W J
	R0116	NRSA02J-101X	MG R	100Ω 1/10W J
	R0117	NRSA02J-391X	MG R	390Ω 1/10W J
	R0118	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0119	NRSA02J-471X	MG R	470Ω 1/10W J
	R0120	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0121	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0123	NRSA02J-470X	MG R	47Ω 1/10W J
	R0126-27	NRSA02J-150X	MG R	15Ω 1/10W J
	R0131-32	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0133	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0134	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0135	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0138-39	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0140	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0141	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0144	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0146	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0166	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0167-68	NRSA02J-151X	MG R	150Ω 1/10W J
	R0169	NRSA02J-271X	MG R	270Ω 1/10W J
	R0170	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0171	NRSA02J-151X	MG R	150Ω 1/10W J
	R0172	NRSA02J-331X	MG R	330Ω 1/10W J
	R0174	NRSA02J-561X	MG R	560Ω 1/10W J
	R0176	NRSA02J-561X	MG R	560Ω 1/10W J
	R0178	NRSA02J-152X	MG R	1.5kΩ 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0301	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0302	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0303-04	NRSA02J-101X	MG R	100Ω 1/10W J
	R0305-07	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0601	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0602	NRSA02J-822X	MG R	8.2kΩ 1/10W J
⚠	R0603	QRZ9017-470	F R	47Ω 1/4W J
	R0604	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0605	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0606	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0607	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R0608-09	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0801-02	NRSA02J-820X	MG R	82Ω 1/10W J
	R0803	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0804-09	NRSA02J-101X	MG R	100Ω 1/10W J
	R0810-11	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0814-17	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0820	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0822	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0824	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0825	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0826	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0827	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0828	NRSA02J-331X	MG R	330Ω 1/10W J
	R0829	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0830	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0831	NRSA02J-150X	MG R	15Ω 1/10W J
	R0832	NRSA02J-151X	MG R	150Ω 1/10W J
	R0833	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R0834	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0835	NRSA02J-150X	MG R	15Ω 1/10W J
	R0836	NRSA02J-151X	MG R	150Ω 1/10W J
	R0837	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0838	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0839	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0840	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0841	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0842	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0843	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0844	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0845-48	NRSA02J-221X	MG R	220Ω 1/10W J
	R0849	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0850	NRSA02J-101X	MG R	100Ω 1/10W J
	R0851	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0852	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0853-54	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0855	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0856-58	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0859-62	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0867-68	NRSA02J-101X	MG R	100Ω 1/10W J
	R0869-71	NRSA02J-820X	MG R	82Ω 1/10W J
	R0872-74	NRSA02J-821X	MG R	820Ω 1/10W J
	R0875-99	NRSA02J-820X	MG R	82Ω 1/10W J
	R0900-04	NRSA02J-820X	MG R	82Ω 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NCB21HK-222X	C CAP.	2200pF 50V K
	C0002	NEH71CM-106X	E CAP.	10μF 16V M
	C0005	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0006	QETN1HM-107Z	E CAP.	100μF 50V M
	C0007	NEHE1EM-107X	E CAP.	100μF 25V M
	C0008	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0009	NCB21HK-102X	C CAP.	1000pF 50V K
	C0100	NEHE1CM-227X	E CAP.	220μF 16V M
	C0102-05	NCB21HK-472X	C CAP.	4700pF 50V K
	C0110	NCB21HK-222X	C CAP.	2200pF 50V K
	C0111	NEH71HM-335X	E CAP.	3.3μF 50V M
	C0112	QFLB1HJ-683	M CAP.	0.068μF 50V J
	C0113	NEH71HM-105X	E CAP.	1μF 50V M
	C0114	NDC21HJ-561X	C CAP.	560pF 50V J
	C0115	NEH71HM-335X	E CAP.	3.3μF 50V M

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0116	NEHE1EM-107X	E CAP.	100μF 25V M
	C0117	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0118	NCB21HK-682X	C CAP.	6800pF 50V K
	C0120	NEH71HM-105X	E CAP.	1μF 50V M
	C0123	NEHE1EM-107X	E CAP.	100μF 25V M
	C0124	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0125	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0126	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0129	QETM1CM-107	E CAP.	100μF 16V M
	C0130	NDC21HJ-102X	C CAP.	1000pF 50V J
	C0131	NEH71HM-474X	E CAP.	0.47μF 50V M
	C0133	NCB21HK-472X	C CAP.	4700pF 50V K
	C0134	NCB21HK-472X	C CAP.	4700pF 50V K
	C0135	NEH71EM-336X	E CAP.	33μF 25V M
	C0136	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0137	NCB21HK-472X	C CAP.	4700pF 50V K
	C0138	NEH71HM-474X	E CAP.	0.47μF 50V M
	C0142	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0143-44	NCB21HK-472X	C CAP.	4700pF 50V K
	C0145	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0148	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0149	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0153	NDC21HJ-221X	C CAP.	220pF 50V J
	C0154-55	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0160	NEH71CM-476X	E CAP.	47μF 16V M
	C0165	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0166	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0304	NCB21HK-332X	C CAP.	3300pF 50V K
	C0305	NCF21EZ-474X	C CAP.	0.47μF 25V Z
	C0306	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0307	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0308	NCB21HK-332X	C CAP.	3300pF 50V K
	C0309	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0310-11	NDC21HJ-150X	C CAP.	15pF 50V J
	C0312-16	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0317	QETN1AM-477Z	E CAP.	470μF 10V M
	C0318-20	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0321-23	NEH71CM-476X	E CAP.	47μF 16V M
	C0601	NCB21HK-393X	C CAP.	0.039μF 50V K
	C0602	QETN1CM-107Z	E CAP.	100μF 16V M
	C0603	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0604	NEH71CM-476X	E CAP.	47μF 16V M
	C0605	NEH71CM-106X	E CAP.	10μF 16V M
	C0606	NEH71HM-105X	E CAP.	1μF 50V M
	C0800	NEH71CM-106X	E CAP.	10μF 16V M
	C0801	NEH71CM-476X	E CAP.	47μF 16V M
	C0802-03	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0804	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0805-08	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0809	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0813-14	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0817	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0818	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0822-26	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0829-36	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0837-38	NEH71CM-476X	E CAP.	47μF 16V M
	C0844	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0845	NEH71CM-476X	E CAP.	47μF 16V M
	C0846	NDC21HJ-270X	C CAP.	27pF 50V J
	C0850	NEH71CM-106X	E CAP.	10μF 16V M
	C0851-52	NCB21EK-104X	C CAP.	0.1μF 25V K
	C0853	NEH71CM-106X	E CAP.	10μF 16V M
	C0854-55	NCB21EK-104X	C CAP.	0.1μF 25V K
	C0856	NEH71CM-476X	E CAP.	47μF 16V M
	C0857	NEH71EM-475X	E CAP.	4.7μF 25V M
	C0858	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0859	NDC21HJ-220X	C CAP.	22pF 50V J
	C0860	NDC21HJ-680X	C CAP.	68pF 50V J
	C0861	NDC21HJ-220X	C CAP.	22pF 50V J
	C0862-64	NDC21HJ-680X	C CAP.	68pF 50V J
	C0865	NEH71CM-106X	E CAP.	10μF 16V M
	C0866-71	NCF21EZ-104X	C CAP.	0.1μF 25V Z

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C0872	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0873	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0874	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C0875	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0876	NDC21HJ-221X	C CAP.	220pF 50V J
	C0877	NEH71CM-106X	E CAP.	10μF 16V M
	TRANSFORMER			
	T0001	QQR0626-001	I.F.TRANSF.	
	T0102	CELT040-301	S.I.F.TRANSF.	
	T0103	CELT001-307	C.WAVE TRANSF.	
	COIL			
	L0002-05	NQL024J-100X	COIL	10μH
	L0100	QQLZ014-R47	PEAKING COIL	0.47μH
	L0102	NQL011K-1R5X	COIL	1.5μH
	L0103	NQL024J-120X	COIL	12μH
	L0107	NQL011K-2R2X	COIL	2.2μH
	L0109	NQL011K-5R6X	COIL	5.6μH
	L0152	NQL011K-8R2X	COIL	8.2μH
	L0153	NQL011K-5R6X	COIL	5.6μH
	L0165	NQL011K-4R7X	COIL	4.7μH
	L0801	NQL02BJ-4R7X	COIL	4.7μH
	L0803	NQL011K-4R7X	COIL	4.7μH
	L0804	NQL02BJ-4R7X	COIL	4.7μH
	TRANSISTOR			
	Q0100	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q0105	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0108	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0110	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0166	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0168-69	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0600-01	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0801-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0805	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0806-07	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0808-09	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0810	2SA1162/YG/-X	SI.TRANSISTOR	
	IC			
	IC0101	TA8865BN	I.C.(MONO-ANA)	
	IC0301	TDA9143/N3	I.C.(MONO-ANA)	
	IC0302	TDA4665/V5	I.C.(MONO-ANA)	
	IC0303	LA7016	I.C.(MONO-ANA)	
	IC0801	SAB9079HS/N1	I.C.(DIGI-MOS)	
	IC0802	MSM5416283-60-X	4M VD-RAM	
	IC0803	AN5860	I.C.(MONO-ANA)	
	IC0804	TC4066BF/N/-XE	I C	
	IC0805	CXA1875AM-X	I.C.(MONO-ANA)	
	OTHERS			
		LC30835-001A-C	SHIELD COVER	
	CF0101	CSB503F30-T2	CER.RESONATOR	
	CF0102-03	FTP41.50MF	CERAMIC FILTER	
	CF0160	TPSH6.0MB	CERAMIC FILTER	
	CF0164	QAX0337-001	CERAMIC FILTER	
	K0001-02	CE41433-001Z	BEADS CORE	
	L0805-06	NQL011K-4R7X	COIL	4.7μH
	SF0100	QAX0315-001	SAW FILTER	
	SF0102	QAX0352-002	SAW FILTER	
	TU0001	QAU0132-001	TUNER	
	UD0001	CEGA016-001	RF SPLITTER	
	W0001	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X0301	CE40749-001Z	CRYSTAL	
	X0302	CE40668-001Z	CRYSTAL	

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	Y0103-07	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0110	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

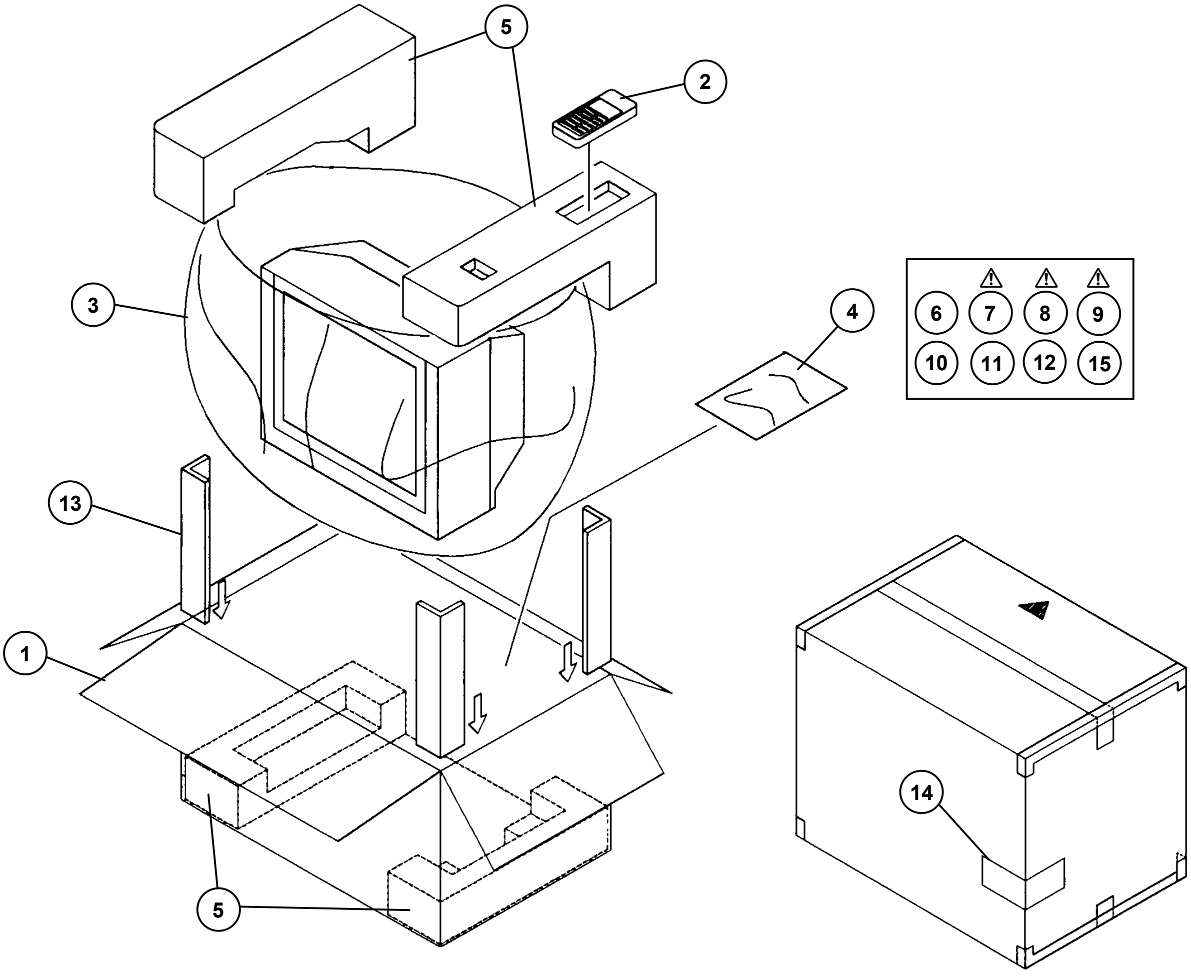
SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W001A-U2)

Refer to PARTS LIST in page 23 for this P.W. board.

100Hz PW BOARD ASS'Y (SMD0Z005A-U2)

Refer to PARTS LIST in page 24 for this P.W. board.

PACKING



PACKING PARTS LIST

[AV-32WFP1EU(A)]

⚠	Symbol No.	Part No.	Part Name	Description
	1	AEM1002-065-E	PACKING CASE	
	2	RM-C787-1E	REMOCON UNIT	
	3	AEM3021-002-E	POLY BAG	
	4	AEM1047-002-E	POLY BAG	
	5	LC10384-002C-U	PACKING CUSHION	4pcs in 1set
	6	BT-54013-1E	WARRANTY CARD	
⚠	7	LCT0337-002A-U	INST.BOOK	For ENG/GER/FRA/NED/ITA/ESP
⚠	8	LCT0338-002A-U	INST.BOOK	For FIN/NOR/DEN/SWE/POR
⚠	9	LCT0339-002A-U	INST.BOOK	For POL/CZE/HUN/ROM/BUL/RUS
	10	32WFP1EU-HSAE	SCH.DIAGRAM	ONLY ITALY(SERVICE)
	11	LC30789-002A-U	WARNING LABEL	
	12	AEM1053-001-E	X-RAY CARD	
	13	AEM3119-001-E	CORNER PAD	(×4)
	14	AEM1052-005-E	EURO LABEL	

[AV-32WFP1EUI(A)]

⚠	Symbol No.	Part No.	Part Name	Description
	1	AEM1002-065-E	PACKING CASE	
	2	RM-C787-1E	REMOCON UNIT	
	3	AEM3021-001-E	POLY BAG	
	4	AEM1047-002-E	POLY BAG	
	5	LC10384-002C-U	PACKING CUSHION	4pcs in 1set
	6	BT-54013-1E	WARRANTY CARD	
⚠	7	LCT0337-002A-U	INST.BOOK	
	13	AEM3119-001-E	CORNER PAD	(×4)
	14	AEM1052-004-E	EURO LABEL	

[AV-32WFP1EK(A)]

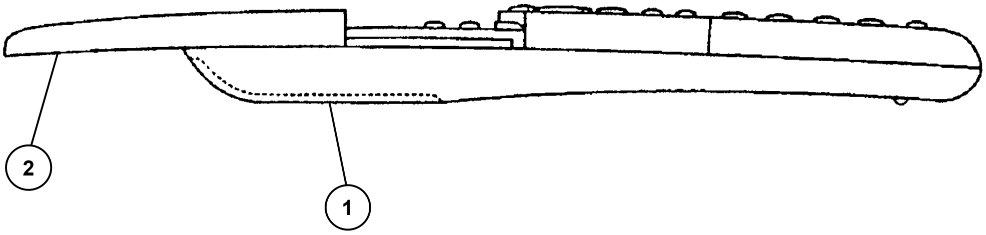
⚠	Symbol No.	Part No.	Part Name	Description
	1	AEM1002-065-E	PACKING CASE	
	2	RM-C786-1E	REMOCON UNIT	
	3	AEM3021-001-E	POLY BAG	
	4	AEM1047-002-E	POLY BAG	
	5	LC10384-002C-U	PACKING CUSHION	4pcs in 1set
	6	BT-54013-1E	WARRANTY CARD	
⚠	7	LCT0340-002A-U	INST.BOOK	
	13	AEM3119-001-E	CORNER PAD	(×4)
	14	AEM1052-003-E	EURO LABEL	
	15	AEM3148-001-E	REG. SHEET	

REMOTE CONTROL UNIT PARTS LIST

[AV-32WFP1EU(A) / AV-32WFP1EUI(A) : RM-C787-1E]

[AV-32WFP1EK(A) : RM-C786-1E]

⚠ Ref.No.	Part No.	Part Name	Description	Local
RM-C787-1E				
1	BGV110202A	BATTERY COVER		
2	BGV110312A	SLIDE COVER		
RM-C786-1E				
1	BGV110202A	BATTERY COVER		
2	BGV110311A	SLIDE COVER		



VICTOR COMPANY OF JAPAN, LIMITED
TELEVISION RECEIVER DIVISION 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

Printed in Japan
VP 0006
DP1052